## **EXHIBIT P**

Exhibit P – SEALED excerpts of Plaintiffs' Expert Witness A. Kolodny Transcript of Deposition (Sept. 04, 2020)

PLAINTIFFS' OPPOSITION TO DEFENDANTS' MOTION TO EXCLUDE MARKETING OPINIONS OF DRS. ANNA LEMBKE, KATHERINE KEYES, ANDREW KOLODNY, AND JAKKI MOHR

	Page 1
1	IN THE UNITED STATES DISTRICT COURT
2	FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA
3	
	x
4	THE CITY OF HUNTINGTON,
5	Plaintiff,
6	vs. Civil Action No.
	3:17-01362
7	AMERISOURCEBERGEN DRUG
	CORPORATION, et al.,
8	
	Defendants.
9	x
	CABELL COUNTY COMMISSION,
10	
	Plaintiff,
11	
	vs. Civil Action No.
12	3:17-01665
13	AMERISOURCEBERGEN DRUG
7 1	CORPORATION, et al.,
14	Defendants.
15	Defendants.
16	September 4, 2020
10	9:00 a.m.
17	J. 00 a.m.
18	VIDEO RECORDED DEPOSITION of ANDREW KOLODNY, M.D., an
19	Expert Witness for the Plaintiff herein, held remotely via
20	Zoom before Sara K. Killian, a Registered Professional
21	Reporter, Certified Court Reporter and Notary Public of
22	the State of New York.
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Page 8 THE VIDEOGRAPHER: I am now 1 recording. The time is 9:06 and we are on 2. the record. This is the videographer 3 speaking, Geoffrey C. Bassett, with Veritext 4 Legal Solutions -- sorry guys, my 5 apologies -- with Veritext Legal Solutions. 6 Today's date is September 4th, 2020 and the time is 9:06 a.m. We're here to take 8 9 the remote video deposition of Dr. Andrew Kolodny in the matter of City of Huntington 10 11 versus AmerisourceBergen Drug Corporation, et 12 al. 13 Would counsel please introduce themselves for the record? 14 15 MS. DICKINSON: Sure. Erin Dickinson 16 at Crueger Dickinson for the plaintiffs and 17 along with me is Anthony Majestro, also for the plaintiffs. 18 19 MR. HESTER: This is Timothy Hester. 20 I represent McKesson for the defendant 21 McKesson and with me are Emily Ullman and 2.2 James Goold from Covington & Burling. 23 MR. FRANKS: Ray Franks. I'm local 24 counsel in Charleston, West Virginia for Cardinal Health with the law firm of Carey 25

Page 9 Douglas Kessler & Ruby. 1 MS. MCNAMARA: And this is Colleen 2. McNamara from Williams & Connelly, also on 3 behalf of Cardinal Health. 4 MS. VITALE: This is Christina Vitale 5 with Reed Smith on behalf of defendant 6 AmerisourceBergen Drug Corporation and along with me is Alyssa Conn. 8 9 MR. HESTER: Good morning, Dr. Kolodny. I introduced myself already, but 10 11 again, my name is --12 THE COURT REPORTER: I have to swear 13 in the witness still. MR. HESTER: Oh, sorry. 14 15 THE VIDEOGRAPHER: So if everyone has 16 been introduced, will the court reporter, 17 Sara Killian, please swear in the witness. Thank you. 18 ANDREW KOLODNY, M. D., after having 19 20 first been duly sworn by a Notary Public, was 21 examined and testified as follows: 2.2 THE COURT REPORTER: Please state 23 your name and address for the record. 24 THE WITNESS: Dr. Andrew Kolodny, 4658 Hanford Street, Douglaston, New York. 25

Page 10 EXAMINATION BY 1 MR. HESTER: Good morning, Dr. Kolodny. I 3 Ο. introduced myself before. My name is Tim Hester. 4 5 I represent McKesson. Let me just set a few ground rules. 6 7 Since we're doing this deposition remotely, it's a little bit more unusual than if we were face to 8 face. 9 10 Are you in your office now? 11 Tam. Α. 12 And is there anybody else there with Q. 13 you? 14 Α. No. Not in my office. 15 Ο. We had sent you exhibits previously 16 in a box that you opened this morning, correct? 17 Α. That's correct. 18 Are there any other papers that you 19 have with you that you are going to be consulting 20 today, aside from the exhibits I show you? 21 Not in the office with me. 2.2 (Whereupon, Exhibit 1 was marked for identification.) 23 24 Q. Okay. 2.5 Dr. Kolodny, let me ask you to open

Page 11 up Exhibit 1, which is in the envelopes, I think, 1 behind you. 3 Do you recognize this document? Α. I do. 4 It's a copy of your report that 5 you've submitted in this litigation; is that 6 7 right? Α. That's correct. 8 9 Ο. And we've premarked that as Exhibit 1 10 for the record. 11 Dr. Kolodny, let me ask you first are 12 you stating -- the opinions that are reflected in 13 this report, are those the opinions you're offering in this litigation? 14 15 This report contains opinions that I 16 will be offering in this litigation or that I am 17 offering in this litigation. 18 Are there any opinions that you're Ο. intending to offer in the litigation that are not 19 20 set out in the report? 21 It's possible. Not that I can immediately think of. 2.2 2.3 Q. Okay. 2.4 And I recognize you've been working in this field for a long time, but I wanted to ask 2.5

you about any specific studies or specific facts you're relying on for purposes of your opinions.

Are there any specific facts or specific studies you're relying on that are not set out in the report?

A. Probably.

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- Q. Do you have those in mind?
- A. I don't know that it would be possible for me to think of them in advance. I've been working on the opioid crisis for 17 years. I've been studying it, writing about it, reading about it and I think it's very likely there are many specific facts that are important but that I didn't wind up getting included. It's impossible to really think of everything in advance that might inform my opinion.
- Q. Are there any specific studies you're planning to rely on to support your opinions that are not cited or referred to in the report?
- A. It's possible, but none that I thought of in advance of writing the report and didn't include, but it's very likely there are many specific studies that inform my opinion that didn't make it into this report.
  - Q. You don't have any in mind as you sit

here that you would intend to rely on?

A. No, I don't. If you were to -- if you start asking me about different subjects, I could probably at that point think of articles, you know, research that's been done that would be relevant to my opinion that didn't make it into this report, but there's nothing I could think of right now off the top of my head that didn't make it into the report.

Q. Okay.

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Do you have any corrections to make to the report?

A. There -- yeah. I think Ms. Dickinson sent a correction to the report I believe yesterday. It might have been a missing citation.

And as I've gone through the report, just in preparation, I've found typos in different places. For example, there was a -- in one place where I used the word Oxycontin and I meant the word -- I meant to say Oxycodone.

MS. DICKINSON: For the record, just for the record, the correction that we sent over, the errata, was to footnote 318 and it was missing a citation and we provided that citation and so that correspondence should be

Page 14 deemed an errata to his actual report. 1 2. MR. HESTER: We did receive that. 3 Are there any other errata you intend 0. to make at this stage? I understand there may be 4 I'm asking about substantive changes. 5 I don't think so. 6 Α. 7 Ο. Okay. Do you know roughly the amount that 8 9 you've been paid to date for testifying in these 10 various opioid litigations? 11 I don't have a number off the top of 12 my head. I would -- yeah. So, I mean, are you 13 talking about since -- do you have a time frame 14 that you're referring to? 15 Well, I believe you've been an expert 16 in three of the opioid litigations -- is that 17 right? -- in Ohio, in Oklahoma and now this matter in West Virginia. 18 19 Yes, that's correct. Α. 20 And I was just trying to get a range Q. 21 of magnitude. Roughly speaking, what's the range 2.2 of magnitude of the total amount you've been paid 23 as a testifying expert in those three cases? 2.4 Α. I think I started working for -- I think I worked for Oklahoma about two years, more 2.5

Page 15 or less, and I can't really remember the exact 1 2. date, but I would estimate over a three- to 3 four-year period of working on the opioid litigation -- it would be a three-year period --4 5 total revenue earned would probably -- ballpark 6 500,000, more or less. Maybe more. Probably 500 7 to 600 I would say over a three-year period. 8 Q. Is your compensation in any way 9 dependent on the outcome of this litigation? 10 Α. No. 11 So there's no bonus or extra Ο. 12 compensation you receive depending on the outcome? 13 Α. That's correct. 14 Let me ask you first to discuss the Ο. 15 issue of pain treatment. 16 Dr. Kolodny, do you agree that the treatment of pain in a legitimate medical issue? 17 18 MS. DICKINSON: Object to the form. 19 Α. Yes. 20 (Whereupon, Exhibit 3 was marked for 21 identification.) 2.2 And let me ask you to look at Q. 23 Exhibit 3, please, if you could open that. Sorry for the mechanics of having to do this. 24 That's okay. I've got it. 2.5 Α.

Page 16 1 Q. Okay. 2. Exhibit 3, which we premarked, is entitled "CDC Guideline for Prescribing Opioids 3 for Chronic Pain, United States, 2016." 4 Dr. Kolodny, have you seen this 5 document before? 6 7 Α. I have. 8 Q. And you cite it in your report, 9 correct? 10 Α. I do. 11 Let me ask you to look at page one, Q. 12 please, of the quidelines and it's in the 13 paragraph on page one on the right-hand side, the first full sentence, which reads "Patients can 14 15 experience persistent pain that is not well 16 controlled." Do you agree with that as a doctor? 17 18 Α. I'm sorry. Where are you? 19 I'm sorry. It's the right-hand Q. 20 column on the first page and it's the first 21 sentence. 2.2 Do you see where it says "Patients 23 can experience persistent pain that is not well controlled"? 24 25 Α. So the -- I'm sorry. The first

Page 17 page -- do you mean the page marked one or do you 1 2. mean the actual first page? 3 Oh, sorry. I didn't realize you had 0. an extra page there. So it would be the first 4 substantive page of text under the heading 5 "Introduction." 6 7 Α. Yes. I've got that now. Okay. Okay. It's page one of the document. Q. 8 9 Do you see that? 10 Α. Yes. 11 And I wanted to point you to the Ο. 12 right-hand column --13 Α. Yes. 14 -- the first full sentence. It says 15 "Patients can experience persistent pain that is 16 not well controlled." 17 Do you see that? 18 Α. I do. 19 Q. Do you agree with that? 20 Yes, I do. Α. Do you see the next sentence: "There 21 22 are clinical psychological and social consequences associated with chronic pain"? 23 24 Do you see that? T do. 25 Α.

Page 18 0. Do you agree with that? 1 2. Α. I do. 3 And let me ask you to turn to page 0. two of the document. At the top of the left-hand 4 column, the first full sentence says "Most 5 6 recently, analysis of data from the 2012 National 7 Health interview studies showed that 11.2% of adults report having daily pain." 8 9 Do you see that? 10 Α. I do. 11 Do you agree with that? Q. 12 I would want to look at the citation. 13 I do believe that experiencing pain on a regular 14 basis is very common. Feeling aches and pains is 15 part of being alive and I do -- I wouldn't -- the 16 estimate of 11.2% wouldn't surprise me, that 11.2% 17 of adults on a routine basis have daily pain. 18 Q. Right. 19 Let me ask you next do you agree that 20 prescription opioids can address legitimate 21 medical needs in treating pain? 2.2 Α. You know, I think that opioids can be 23 effective for treating pain at the end of life 24 when you're able to continue increasing the dose because someone is near the end of life and I 25

think opioids can be effective for pain when used intermittently, low doses. But I do not believe opioids are effective for pain when they're taken around the clock for weeks and months and years unless the dose keeps going up.

Q. Okay. Let me ask you to look at your report, please, Exhibit 1, page nine.

Do you have that there, page nine?

A. I do.

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- Q. Do you see the second full paragraph begins "Opioids are essential medicines for palliative care"?
  - A. Yes.
- Q. Why are they essential medicines for that purpose?
- A. Because near the end of life, when you're able to continue increasing the dose because someone is near the end of life and you don't have to worry so much about addiction or respiratory depression or even the opioid potentially shortening the life span for someone who is near the end of life and suffering, they can be effective and they can provide relief and not only do opioids relieve the physical pain, but they can also provide a sense of wellbeing for

Page 20 someone who is scared and suffering near the end 1 of life. 2. 3 Ο. Let me ask you to look at page 11, please, of your report. 4 5 Α. Yes. Do you see the third paragraph? 6 0. 7 first sentence refers to the legitimate use of opioids -- and I'm now going to quote -- for acute 8 9 pain, cancer pain, palliative care and 10 catastrophic injury. 11 Do you see that? 12 Α. You're at the third paragraph --13 Q. Yes. I wanted to ask you about this phraseology that you used where you refer to the 14 15 legitimate use of --16 Can you just -- I'm on page 11. Α. 17 Sorry. It's the third paragraph. Q. Ιt 18 begins "Industry joined together ..." 19 Do you see that paragraph? 20 I see that first sentence. Α. 21 Q. Yes. 2.2 Do you see where you use the phrase 23 "legitimate use"? It's in the second line of that paragraph. 24 T do. 25 Α.

- Q. And you refer in there to the legitimate use for prescription opioids.
  - A. Yes.

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- Q. And you say the legitimate use for prescription opioids is for acute pain, cancer pain, palliative care and catastrophic injury; is that correct?
  - A. That's correct.
- Q. And why do you say those are legitimate uses?
- A. I think -- and let me just clarify that, you know, when I say legitimate, I'm really -- what I'm referring to is appropriate uses, so these are appropriate uses because for these different conditions, the benefits of an opioid can outweigh the risks and so with any medical treatment, if the benefits outweigh the risks for that individual patient, then the treatment generally would be considered appropriate.
- Q. Do you know what share of prescription opioids are used for these legitimate uses or appropriate uses?
- A. Yes, I do and it really depends on how you're measuring the share for consumption.

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If you're measuring consumption by numbers of prescriptions written, acute pain constitutes a large percentage of the number of prescriptions written. If you're measuring consumption in terms of morphine milligram equivalents, chronic pain, chronic non-cancer pain, conditions for which the risks of opioids outweigh the benefit constitute the bulk of consumption.

When it comes to cancer pain, at least for Hydrocodone combination products, my understanding -- the data I've seen on this is that cancer constitutes about 2%, neoplasms constitute about 2% of opioid prescriptions written.

- Q. So when you said that the largest share of prescriptions written is for acute pain, do you have in mind a number on that or a percentage?
- A. Not off the top of my head. I want to have some real data in front of me.
  - Q. I mean, is it two-thirds?
- A. I don't really want to guess, but it's a very large percentage are written in a small quantity for acute pain.
  - Q. When you say large percentage, do you

Page 23 mean more than 50% of prescriptions are written 1 2. for acute pain? I believe that's correct. I think 3 Α. more than half of prescriptions are written for 4 acute pain. 5 And you said roughly 2% of 6 Ο. 7 prescriptions you believe are written for cancer pain? 8 9 I've seen data on Hydrocodone 10 combination products that show that about 2% are 11 for cancer. 12 And for catastrophic injury that you 1.3 refer to here, are you putting that in the category of acute pain or is that something 14 different? 15 16 Acute pain would include hospital 17 use, during surgery or immediately after surgery 18 or someone who has arrived in an emergency room, 19 experiencing a catastrophic injury. Those are 20 circumstances in which opioids are appropriate for 21 acute pain. 2.2

I should point out, though, that when we talk about acute pain and the percentage of prescriptions written, I'm not suggesting that because more than half of prescriptions are

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written for acute pain that acute -- that more than half of prescriptions were appropriate because -- just because the patient has acute pain doesn't mean they should have an opioid, doesn't mean people should be sent home from hospitals or minor procedures with acute pain with opioids.

- Q. But that judgment would be made in an individual case by a doctor who would decide what to write as a prescription for acute pain, right?
- A. Not necessarily. So, I mean -- the doctor -- just because a doctor made the decision doesn't mean that the prescription was appropriate. We are in a situation where we have a medical community that was misinformed about the risks and benefits. So just because -- a doctor may have believed that this was the right thing to do for their patient, but that doesn't mean it was appropriate.
- Q. Now, I understand the point you're -the distinction you're drawing, but what I wanted
  to focus on in particular was if a doctor is
  writing a prescription for acute pain, that's a
  category that you see as legitimate? The
  individual prescriptions you might --

MR. MAJESTRO: Hey Tim --

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Page 25 MR. HESTER: Yes? 1 2. MR. MAJESTRO: Erin got kicked off, so let's wait a minute for her to get back 3 on. 4 5 MR. HESTER: Okay. I. MR. MAJESTRO: Got kicked off too, 6 7 but I'm obviously back on. THE VIDEOGRAPHER: Would you like to 8 9 temporarily go off the record? 10 MR. HESTER: Sure. Sure. 11 Have you done these video depositions 12 before, Dr. Kolodny? 13 THE WITNESS: Just one. THE VIDEOGRAPHER: The time is 9:28 14 and we're off the record. 15 16 (Recess taken) 17 THE VIDEOGRAPHER: The time is 9:32. 18 We are back on the record. 19 Q. Dr. Kolodny, before the break, we 20 were talking about the share of prescriptions that 21 are written for acute pain circumstances and I 2.2 understand your point to be that in your view, not 23 all such prescriptions are appropriate for acute 24 pain, right? 2.5 Α. I would say that many -- maybe

most -- acute pain prescriptions aren't necessary. So then if you, for example, compare opioid prescribing in the United States to other countries with really good health care systems, like in western Europe, opioids are not really used outpatient for acute pain. Patients aren't sent home from the hospital with acute pain prescriptions.

- Q. But I wanted to ask you a slightly different question, which is a doctor who writes a prescription for acute pain is making a judgment that the prescription is appropriate for that circumstance, correct?
  - A. That's correct.
  - Q. Okay.

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And we talked before about the share of prescriptions that are written for acute pain and I believe you said that you understood it was greater than 50%, although you didn't have the specific number in your head, right?

- A. Correct.
- Q. Do you know what share of prescriptions in West Virginia are written for acute pain?
  - A. I don't know if I've seen data on

Page 27 that. No, I don't believe I can answer that 1 question. 3 Ο. You've not seen any data on that? I don't believe I've seen data on 4 Α. opioid prescribing and the diagnosis of the 5 patients receiving the opioid prescription in the 6 State of West Virginia. Do you have any reason to believe 8 Q. 9 that the share of prescriptions written for cancer 10 pain would be higher in West Virginia? I believe because -- I don't think 11 12 West Virginia could be that different from the 13 rest of the United States, so I believe that 14 prescriptions written for cancer in the State of 15 West Virginia constitute a small percentage of 16 opioid prescriptions. 17 Ο. Do you know the percentage? 18 Α. I have not seen that data, I don't believe. 19 20 (Whereupon, Exhibit 4 was marked for 21 identification.) 2.2 Let me ask you if you could open up Q. 23 Exhibit 4, please. 24 Do you have it there? T do. 2.5 Α.

Page 28 So Exhibit 4, which we premarked, is 1 Ο. 2. written by Nora Volkow entitled "Opioid Abuse in 3 Chronic Pain - Misconceptions and Mitigation Strategies." 4 5 Do you see that, Dr. Kolodny? 6 Α. I do. 7 Q. And this is a document that you cite in your report; is that right? 8 9 Α. I believe I do. 10 If you need to confirm, I know Q. Yes. 11 it's cited in your report in note 17, page ten. 12 Α. Okay. 13 Q. You're familiar with this document? 14 Α. I am familiar with this paper. 15 Q. Okay. And let me ask you to look at 16 the first page. It's 1253. Do you see under the heading "Source 17 18 of the Opioid Epidemic," there's a first sentence that reads "More than 30% of Americans have some 19 20 form of acute or chronic pain"? 21 Do you see that? 2.2 Α. Yes. 23 Is that a statement you agree with? Q. I would like to look at what they're 24 Α. citing for that, but as I mentioned before, part 25

Page 29 of feeling pain -- you know, part of being alive 1 2. involves feeling pain. So many Americans very 3 frequently and many humans very frequently feel That's not necessarily an indication that 4 pain. 30% of Americans need opioids or even need a pill 5 6 for their pain of any sort. 7 Ο. That wasn't what I asked you, though. I just asked whether you agree with 8 9 this statement: "More than 30% of Americans have 10 some form of acute or chronic pain." 11 I'm not sure. I want to look at the 12 studies and many of the studies on that topic have 13 been influenced by the opioid industry, including opioid distributors, so I globally look closely at 14 15 what was being cited there. 16 I really need you to answer my Ο. 17 questions, though. That was a narrow question. 18 Do you agree with this statement --19 do you agree with this statement: "More than 30% 20 of Americans have some sort of acute or chronic 21 pain"? 2.2 If you do or don't, you can say yes 23 or no. 24 MS. DICKINSON: Objection to form. 2.5 Argumentative.

Page 30 He's answered the question two or 1 2. three times. He's going to answer it with completeness in the way that he needs to to 3 be accurate. 4 Go ahead, Doctor, if you want to 5 6 answer again. 7 It's not a yes or no question. I can't really answer whether I agree with it or 8 9 disagree with it without looking at who they 10 cited. 11 Q. Okay. 12 Do you know what the numbers are on 13 the percentage of Americans who have acute or chronic pain? 14 15 I have seen estimates all over the 16 place and many of the studies on this topic are 17 not reliable because they've been influenced by 18 the opioid industry. 19 Do you see the next sentence: "Among 20 older adults the prevalence of chronic pain is 21 more than 40%"? 2.2 Do you agree with that statement? 23 I don't agree or disagree with it. Α. Ι 24 really want to look at the support for that 2.5 statement.

Page 31 Do you know the statistics in West 1 2. Virginia for the prevalence of chronic pain among older adults? 3 I do not --4 Α. MS. DICKINSON: Objection to form. 5 6 Α. -- know what percentage of people in 7 West Virginia -- older adults -- have chronic pain and I would be suspicious of any study that claims 8 9 to have that data. That's something that's very 10 difficult to assess. 11 Let me ask you to look further down 12 in the page. Do you see at the end of the first 13 paragraph that we've just been looking at, there's 14 a sentence that reads "Although opioid analgesics 15 rapidly relieve many types of acute pain and 16 improve function" -- I want to focus on that 17 phrase. 18 Do you see that phrase? 19 Α. Yes. 20 Do you agree with that? Q. 21 MS. DICKINSON: Objection to form and misstates the document in terms of it's only 2.2 2.3 half of the sentence you're reading from. MR. HESTER: I think that's a 2.4 25 speaking objection, Erin. You can object to

the form. I'm asking Dr. Kolodny about one-half of the sentence.

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- Q. I understand there's a second half of the sentence, Dr. Kolodny, but the first half is what I wanted to ask you about.
- A. I can't really agree or disagree with it. I think the authors might have gotten a little ahead of the evidence on that because I'm not aware of studies on opioid use and function for acute pain. I'm aware of studies on opioid use and function for chronic pain, which have shown that they really don't improve function, but I'm not aware of studies -- so I think it's possible that the authors may have gotten a little ahead of the data on this.
- Q. Have you seen studies that are contrary to this point, the point being that opioid analgesics rapidly relieve many types of acute pain and improve function?
- A. So it is -- opioids are effective for acute pain and there are many studies that show that. I'm not aware of studies that show that opioids improve function in people with acute pain because function is generally a concern in people with chronic pain, not acute pain. We don't

Page 33 really think about function in somebody who just 1 2. had surgery. (Whereupon, Exhibit 5 was marked for 3 identification.) 4 Let me ask you to look, please, at 5 I may come back to some of these, so 6 Exhibit 5. 7 you can keep a stack of them, but the new one to open is Exhibit 5. 8 9 Α. I have it. 10 Exhibit 5, which we premarked, is Q. 11 written by Bruce Naliboff and others and it's 12 entitled "A Randomized Trial of Two Prescription 13 Strategies for Opioid Treatment of Chronic 14 Nonmalignant Pain." 15 Do you see that? 16 T do. Α. 17 Is this a document you've seen Q. before? 18 I'm not -- I'm not certain. 19 Α. 20 It's cited -- it's cited in your Q. 21 I don't mean to make this a memory 2.2 contest. It is cited in your report at note 12. 23 Α. Okay. 24 Q. So do you see -- let me ask you to look at page 288, which is the first page, and I 25

There's a reference to -- in the first sentence on that right-hand column, there's a reference to a

want to direct you to the right-hand column.

Do you see that?

study by Kalso, et al, concluded that opioids led to a consistent reduction of at least 30% in pain

severity in short-term trials.

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- A. Yes, I see that.
- Q. Is that consistent with your understanding of the data on reductions in pain severity in short-term trials of prescription opioids?
- A. Yes. Opioids can be effective on a short-term basis.
- Q. Let me ask you to look back at the CDC guidelines, please, which is Exhibit 3. It should be in your stack. Happily, you don't have to open this one. You already have it.
  - A. I have it.
- Q. Do you see in the second package -- let me point you to page two of the CDC guidelines, Exhibit 3.

There's a sentence in the left-hand column, about three or four sentences down, there's a sentence that reads "Evidence supports

Page 35 short-term efficacy of opioids for reducing pain 1 2. and improving function in non-cancer, no 3 susceptive and neuropathic pain in randomized clinical trials lasting primarily less than 12 4 5 weeks." Do you see that? 6 7 I do. Α. You don't see that? 8 Q. 9 Α. I said I do see that. 10 Q. Okay. 11 Is that consistent with your 12 understanding of the science? 13 Α. It's my --14 MS. DICKINSON: Objection to form. 15 Α. It's my -- consistent with my 16 understanding of the published studies on this 17 topic. Most of these short-term trials were 18 studies done by drug companies to have opioids 19 approved and they were short-term trials in people 20 with chronic pain and in those short-term trials, 21 some of those studies showed benefit. 2.2 problems with the methodology used in some of 2.3 those studies, so I don't know that I'd say that it's consistent with the science. I'd say it's 24 consistent with the published literature on the 2.5

Page 36 topic, which is what the CDC is citing. 1 2. Q. Okay. 3 Have you seen published literature that contradicts this point? 4 5 MS. DICKINSON: Objection to form. I've seen -- yes, I have seen some 6 Α. 7 data that would contradict this finding. I've seen, for example, evidence of clinical trials 8 9 that were short term for patients with chronic 10 pain that really didn't show much improvement at 11 all. 12 But in general, I think the --13 there's clearer science that shows that when you 14 take an opioid acutely, even for a chronic pain 15 problem, the opioid works. The problem is when 16 you're taking consistently -- and even for 12 17 weeks, if you're taking consistently for 12 weeks, there are studies that would contradict, there's 18 19 evidence that contradicts that finding. 20 almost -- most of what's been published on this is 21 part of clinical trials used for drug approval and 2.2 that's what the CDC is reporting on. 2.3 So they're reporting that in general Ο. the studies reflect benefits in these shorter term 24 trials? 2.5

Page 37 MS. DICKINSON: Objection to form. 1 2. Α. They're trying to indicate what the 3 published literature shows on this subject and that's what they found. 4 5 And you would consider this an accurate characterization of what the published 6 literature is? Yes, I do. 8 Α. 9 Ο. Okay. 10 Dr. Kolodny, let me ask you to look 11 at page 68 of your report, please. 12 Do you have it there? 13 Α. Yes. Do you see the -- it's the first full 14 Ο. 15 paragraph on that page and you say "Since 2008, 16 the public health crisis precipitated by 17 prescription opioids was summarized in numerous news articles, books and media stories and 18 19 governmental bodies and task force groups have 20 reported on these issues." 21 Do you see that? 2.2 Α. T do. 2.3 What I wanted to ask you is do you 24 believe today that the medical community has become broadly aware of the risks and benefits 2.5

Page 38 associated with longer term use of prescription 1 2. opioids? 3 MS. DICKINSON: Objection to form. That's a good question. I think that 4 Α. the medical community is much more aware today 5 that we have an opioid crisis. I think that --6 7 and many of the medical community have increasingly recognized that a lot of what we 8 learned was incorrect. 10 But I'd say that the evidence 11 suggests we have a very long way to go because we 12 still prescribe opioids much more aggressively in 13 the United States than in other countries, which 14 suggests that many clinicians are still not 15 accurately weighing the risks versus the benefits. 16 The clinicians are engaged in that 17 process of weighing risks and benefits? You would agree with that? That's what the clinicians do? 18 19 A clinician is supposed to weigh the 20 risks versus benefits for any treatment for any 21 patient. 2.2 Ο. And clinicians have become more 23 broadly aware in recent years of the risks

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associated with long term use of opioids; is that

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right?

A. The trends suggest that the medical community is starting to get it. They're starting to better weigh risks versus benefits, but that we have a very long way to go.

Q. Let me ask you to look back at the CDC guidance again, Exhibit 3. Let me ask you to look at page three of this document and I wanted to point you to the bottom of the left-hand column over to the top of the right-hand column. It's the last sentence on the left-hand column.

It says "Although the transition from use of opioid therapy for acute pain to use for chronic pain is harder to predict and identify, the guideline is intended to inform clinicians who are considering prescribing opioid pain medication for painful conditions that can or have become chronic."

Do you see that?

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Q. You're aware that was one purpose of these guidelines was to give clinicians this information on the risks associated with longer term use of opioids as compared to the benefits?

MS. DICKINSON: Objection to form.

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A. I believe that the CDC drafted these guidelines because of concern that there was a massive overprescribing of opioids for chronic pain and they wanted to try and address that problem by providing better information about risks, but also by communicating to the medical community that evidence of effectiveness is lacking.

- Q. And yet you're also aware that doctors continue to prescribe opioids at certain levels for a number of purposes, right?
- A. I'm aware that doctors, especially in the United States, continue to prescribe a lot of opioids.
- Q. And so doctors are making individual judgments about the benefit and the risk, correct?
- A. That's correct. For -- and not just doctors, but any health care professional, any clinician is supposed to weigh risks versus benefits for any treatment. The problem with opioids is that to this day, many are not weighing risks versus benefits well because they were misinformed and if you underestimate the risks and/or overestimate the benefit of any treatment, you may be likely to inappropriately prescribe

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Page 41 that treatment. 1 And over the last ten years, there's 2. Q. been much more focus on risks associated with 3 opioids and much broader dissemination of 4 knowledge about risks associated with opioids; is 5 that right? 6 7 MS. DICKINSON: Objection to form. I would say there's over -- I would 8 Α. 9 say maybe since around 2010, 2011 is when we 10 started to see an effort made to communicate to 11 the medical community that risks had been 12 inappropriately minimized and the benefits have 13 been exaggerated and that effort to get the word 14 out to the medical community has had a positive 15 impact, but we have a very long way to go. 16 But the medical community today is 17 still making a judgment about prescribing opioids based on the weighing of risks and benefits based 18 19 on the further knowledge that's been disseminated, 20 right? 21 MS. DICKINSON: Objection to form. 2.2 Foundation. 23 For any treatment prescribed by any Α. clinician, you weigh -- the clinician is supposed 24 to weigh the risk versus benefits for the patient 2.5

Page 42 in front of them, whether it's opioids or whether 1 2. it's surgery. (Whereupon, Exhibit 9 was marked for 3 identification.) 4 Let me ask you to look at Exhibit 9, 5 6 please. 7 Do you have that one there, Dr. Kolodny? 8 I do. 9 Α. 10 Exhibit 9, which we premarked, is by Ο. Mark Edlund and others entitled "The Role of 11 12 Opioid Prescription in Incident Opioid Abuse and 13 Dependence Amongst Individuals with Chronic Noncancer Pain." 14 15 Have you seen this document before? 16 Α. T have. 17 This is cited in your report, right? Q. 18 Α. It is. 19 Let me ask you to look at the first Q. 20 page of the document please, 557. 21 Α. Yes. 2.2 Q. Do you see in the -- let me point you 23 to the right-hand column -- the first full 24 paragraph in the right-hand column, the last few sentences. There's a sentence that begins "A key 25

Page 43 clinical issue facing clinicians is how to balance 1 the potential benefits of opioid therapy with 2. risks of addiction in CNCP patients for who 3 they're contemplating initiating opioid therapy." 4 5 Do you see that? I'm sorry. Which paragraph are you 6 Α. 7 reading from? It's the first full paragraph on the 8 Q. 9 right-hand side. 10 Α. Yes. 11 Sorry. This remote work is a little Ο. 12 harder to point you to pieces of the document, but 13 it's the right-hand side, the first full paragraph. 14 15 Α. I do see that, yes. 16 And the sentence I wanted to point 17 you to is "A key clinical issue facing clinicians is how to balance the potential benefits of opioid 18 therapy with risks of addiction in CNCP patients 19 20 for whom they're contemplating initiating opioid 21 therapy." 2.2 Do you see that? I do. 23 Α. And CNCP refers to chronic non-cancer 24 Q. 25 pain, right?

Page 44 Yes, it does. 1 Α. 2. Q. And do you agree with the statement there? 3 MS. DICKINSON: Objection to form. 4 5 Α. Yes. Let me ask you to look at the next 6 0. 7 sentence where it says "The clinical importance of this issue is heightened by the fact that in some 8 9 patients, opioids are the only viable option for 10 managing their pain." 11 Do you see that? 12 Α. Yes. 13 Q. Do you agree that for some patients, 14 opioids are the only viable option for managing pain? 15 16 MS. DICKINSON: Objection to form. 17 Α. Yes. Palliative care would be a good 18 example. 19 Here, he's talking about chronic Q. 20 non-cancer pain. 21 Do you agree that for some patients, 2.2 opioids are the only viable option for managing 23 chronic non-cancer pain? 24 MS. DICKINSON: Objection to form. Foundation. 25

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A. It's a good question. I'd have to really think that through. I think -- you know, it's possible there are patients with pain that's chronic and so severe that you're basically going to give them massive amounts of opioids and probably other drugs so as to put them almost into a narcotic stupor because there's nothing else you can do for them, but -- you know, I think that that would be uncommon. It's a good question. I'd have to think about it a bit more. I wasn't really asked to opine on that specifically.

Q. Do you disagree with what Dr. Edlund writes here?

MS. DICKINSON: Objection to form.

- A. If Dr. Edlund had written that for some people with low back pain, opioids are the only thing that can give them relief, I would disagree. He didn't write that and so what he wrote here is vague and difficult for me to say whether I agree with it or not.
- Q. Let me ask you to turn to page eight of your report, please. I wanted to ask you about a sentence on the very top of page eight. It's the second full sentence on the page: "Studies have found that many patients on long-term opioids

Page 46 for chronic pain meet criteria for DSM-V" -- or 5 1 -- "Opioid Use Disorder." 2. 3 Do you see that? Α. T do. 4 How many? When you use the word 5 "many" in that sentence, do you have in mind a 6 7 number? Α. I believe in that study when 8 Yes. 9 you included mild Opioid Use Disorder, it was more 10 than a third of patients that met criteria for 11 Opioid Use Disorder using DSM-5 criteria. 12 I think for DSM-IV criteria where the 13 term "dependence" is used to mean addiction rather than Opioid Use Disorder, they found about 25% met 14 criteria for addiction and so that -- that's a 15 16 very high prevalence. 17 But I guess flipping it around the Q. other way then, if I understood what you just 18 said, Dr. Kolodny, that would mean about 19 20 two-thirds of the patients on long-term opioids 21 for chronic pain would not meet the criteria for 2.2 OUD? MS. DICKINSON: Objection to form. 23 I don't know if I would say that it 2.4 Α. means two-thirds don't meet criteria. It would 2.5

mean that in this particular study that two-thirds of the patients that were assessed didn't give -the folks doing the study didn't acknowledge
evidence of addiction and studies like this are
very difficult to do because if somebody has
Opioid Use Disorder and they're participating in a
study and they indicate to the people performing
the study that they meet criteria, they're at risk
of being cut off from their opioid supply and for
people that are addicted, that's a very
frightening prospect. It means they might have to
line up at a methadone clinic, it means they might
wind up buying drugs on the street.

So all of these studies are difficult to perform. What they found was that a third did report -- did indicate criteria that indicated Opioid Use Disorder or addiction. That doesn't mean that the two-thirds didn't have the condition.

- Q. No, but in terms of the study,
  two-thirds did not end up reporting
  characteristics that led to the conclusion that
  they met the criteria, right?
  - A. That's correct.
  - Q. The other number you reference, which

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Page 48 is the DSM-IV standards, I believe you said 25% 1 met the DSM-IV standards for OUD? 3 Α. I believe in the study by Boscarino that was cited here, I believe they found 25% met 4 criteria for Opioid Use Disorder. 5 That is 6 correct. 7 Ο. So again, they found that 75% in that study did not mean that criteria? 8 9 MS. DICKINSON: Objection to form. 10 No, they didn't find that 75% didn't 11 meet criteria. They only had 25% that reported 12 the criteria. 13 Q. I understand. 14 But that would also mean that they 15 didn't find, from among that population they were 16 looking at, there were 75% of the population they 17 looked that that did not meet the criteria as they 18 were measuring it? 19 MS. DICKINSON: Objection to form. 20 Twenty-five percent of the patients Α. 21 provided evidence that they have DSM-IV opioid 2.2 dependence. That evidence wasn't elicited from 23 75% of the people that they surveyed. 2.4 Q. The sentence that we were just

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looking at refers to patients on long-term

Page 49 opioids. 1 2. Do you see that in your report? 3 Α. Yes. What does long term mean there? 4 Ο. In general, long-term opioid therapy, 5 6 that term is used interchangeably with chronic 7 opioid therapy and most studies usually use 90 days of continuous use as the marker. 8 9 Ο. So most studies would view use of 90 10 days or less as short term or acute use versus 11 chronic use? 12 Α. Much of what's in the literature uses 13 90 days or more as the -- as a cut off for --14 really, for defining chronic opioid therapy 15 or long-term opioid therapy, but much of the more 16 recent literature would really define long term as 17 even more than seven days after acute pain. 18 0. You think there's literature that 19 defines use of opioids for more than seven days as 20 long term? 21 Well, I think -- I don't know. 2.2 I think there's literature right now that would 23 define more than seven days as being long and 24 inappropriate for acute pain. Now, what I'm trying to get to is the 2.5 Q.

phraseology you're using of "long term."

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When you used it in your report.

Were you referring to use for more than 90 days?

A. I think that I'd have to look at the specific use in my report. I think in many cases where I used the term "long-term opioid therapy," especially if I'm referring to what's in the literature, I'm using the term interchangeably with "chronic opioid therapy." Those studies generally are for people on opioids 90 days or more.

- Q. Do you know what percentage of prescriptions are written for shorter-term therapy, less than 90 days?
- A. The majority of prescriptions -- as I mentioned earlier, most prescriptions that are written, more than half -- and maybe even significantly more than that -- are written for acute pain and typically, they -- it's a pill bottle that has 20 pills of five-milligram Hydrocodone. So if you're talking about the share of prescribing in terms of numbers of prescriptions written, acute pain is a large piece of it.

If you're talking about consumption

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Page 51 of opioids in morphine equivalence, chronic opioid therapy, chronic non-cancer pain is a -- probably a very large percentage of the overall consumption. I really wanted to focus on number of prescriptions in my question here. So in terms of number prescriptions, well more than half of the total prescriptions for opioids would be for less than 90 days? MS. DICKINSON: Objection. Form. Well, a prescription can only be written for 30 days. So if you are getting repeated prescriptions every 30 days, once you've done that for more than three months, we start to define the treatment you're getting as -- as chronic opioid therapy.

It's difficult, though, to really answer your question because there are also studies showing us that patients who wind up on chronic opioid therapy overwhelmingly began their opioid career with an acute pain prescription and never got off.

MS. DICKINSON: Tim, could I ask
just -- I don't want to interrupt this line

Page 52 of questions, but when you get to a breaking 1 2. place, can we take a break? It's been a -- I know we hopped off because of technical 3 difficulties, but it's been about an hour and 4 ten minutes and we just need a five- or 5 ten-minute break. 6 7 MR. HESTER: Yeah. I could stop now 8 if you want me to. Do you want to stop now or should we go a little longer? 9 MS. DICKINSON: It's totally up to 10 If you've got, you know, three minutes 11 12 in this line of questions, certainly go 13 ahead. I don't want to break up your flow. But I do think that we're probably -- we've 14 15 gone over an hour. I'd kind of like to take 16 just a short one if we can when if you're at 17 a stopping point. MR. HESTER: We can take a break now. 18 19 MS. DICKINSON: Okay. 20 MR. HESTER: How should we work the 21 mechanics? We're not all in the same place, 2.2 we don't know when we're coming back. Should 23 we come back around 10:15? 24 MS. DICKINSON: Yes. It's 9:09 here, 25 10:09 there. Let's just make sure we're all

Page 53 back in the room roughly around 10:15 and as 1 2. soon as we see you, me and Dr. Kolodny. We certainly could start. 3 MR. HESTER: Okay. Thanks. 4 MS. DICKINSON: Dr. Kolodny, is that 5 6 okay with you? Do you need a longer break than that? 8 THE WITNESS: Sounds good. We're 9 going to tune back in at what time? 10 MS. DICKINSON: In five minutes at 10:15 your time. 11 12 MR. HESTER: Is that okay? 13 THE WITNESS: Yes, sounds great. THE VIDEOGRAPHER: The time is 10:10 14 15 and we're now off the record. 16 (Recess taken) 17 THE VIDEOGRAPHER: The time is 10:18 18 and now we are back on the record. 19 Dr. Kolodny, before the break, I was 20 asking you about this statement in your report 21 about patients on long-term opioids for chronic 2.2 pain and I was trying to understand your view on 23 the percentage of prescriptions written for patients on long-term opioids as compared to the 24 percentage of prescriptions written for patients 25

who are using opioids on a shorter term basis, less than 90 days.

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MS. DICKINSON: Objection to form.

A. It's a difficult question to answer. Evidence -- national data on prescribing suggests that a large majority of prescriptions have -- are meant for less than a month and have less than a month's worth of pills in them.

West Virginia, though, may be unique. Some of the data that I reviewed showed a massive amount of Oxycodone 30 milligrams that were dispensed or even Oxycodone 15 milligrams. Those pills are very high dosage and generally would not be given to someone who didn't already have a tolerance to opioids. So sometimes by looking at the dose, you can get a sense that maybe this was for someone who was on opioids long term.

- Q. Those doses can also be used for someone who is at end of life or has cancer pain, correct?
- A. Correct. A 30-milligram Oxycodone is equal to about nine five-milligram Vicodin in one pill. Imagine nine Vicodin in a single pill.

  Most people who would take that who don't have an opioid tolerance would get very sick and maybe it

Page 55 could be potentially even be fatal, just one pill. 1 2. So those should only be for people who have built 3 up quite a tolerance to opioids. Or who are in acute pain or cancer 4 Ο. pain? 5 Anyone who has built up a tolerance 6 7 to opioids, whether it's cancer pain, whether it's addiction. Someone who is tolerant to opioids. 8 9 And I believe for some of the data I 10 reviewed, there were pharmacies in West Virginia, 11 in Cabell County and Huntington, where it looked 12 like a very large percentage of the pills that 13 were sold to these pharmacies were for these very 14 high-strength dosages. 15 What studies are you referring to? 16 What data are you referring to? 17 Α. I'm referring to data I believe from 18 the expert report of Craig McCann. \* 19 Q. Have you done any independent looking 20 or is it based on the report from Mr. McCann? 21 This has his analysis. 2.2 Q. Okay. Let me ask you to look at your 23 report, page nine. 24 In the second full paragraph, there's

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a sentence that says "The bulk of opioid

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Page 56 consumption in the US is for common chronic 1 conditions." 3 Do you see that? Α. Yes, I do. 4 And when you say bulk, what do you 5 mean there? Do you mean number of prescriptions 6 7 or do you mean MME? Well, I think the most accurate way 8 Α. 9 to measure opioid consumption is not by counting 10 the number of prescriptions. I think that can be 11 very misleading. That's typically how the opioid 12 industry likes to measure consumption. 13 talking about weight of opioids consumed and yes, 14 MME is a way of standardizing opioids of different 15 potency. So when you measure the amount of 16 opioids consumed in terms of weight and kilograms, 17 the consumption -- the bulk of that consumption -and by bulk is not really a scientific term; I 18 19 quess I could have been more precise -- but I 20 believe more than half of that weight of opioid 21 consumed is for conditions where opioids are 22 probably not appropriate. I wanted to ask you about a different 2.3 Ο. 24 question, though.

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In terms of the number of

Page 57 prescriptions, I take it that the point is 1 2. different from the point you make there. In terms of number of prescriptions, the bulk of 3 prescriptions written would not be for common 4 chronic conditions; is that right? 5 MS. DICKINSON: Objection to form. 6 7 Α. I would say that more than half of the prescriptions are not for chronic pain. 8 9 They may still be inappropriate, though, because 10 we are still overprescribing for acute pain. 11 yes, to answer your question, I believe if you 12 were measuring consumption in terms of numbers of 13 prescriptions written, which I don't think is a good way to measure consumption, yes, more than 14 15 half would be probably be for acute pain. 16 And when you say here that the bulk 17 of opioid consumption is for common chronic 18 conditions -- and I understand you're referring to 19 weight or MME -- what's the basis for your 20 statement? 21 Data that I've reviewed on opioid 2.2 consumption in the United States using MME. 2.3 Did those data tie to particular Ο.

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MS. DICKINSON:

Objection to form.

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uses?

- A. Yes. These were studies done where it used the indication of -- the patient's diagnosis was used.
- Q. Do you have any particular studies in mind?
- I've got a slide that I could think of that I've shown, but I can't remember in that slide who I cited. So I'd have to really go back and look for that. But it's -- you don't necessarily need a study to show you that consumption for chronic pain by weight is going to be a pretty huge number because if you look at the average prescription that's written for acute pain, there might be 10 five-milligram pills in it, so the total weight might be 50 MME, whereas if you were to look at an oxycodone 30-milligram prescription that -- especially some of the prescriptions that were likely dispensed in West Virginia -- each pill could be for 30 milligrams, so each pill would be similar to nine Vicodin and I have 240 of those pills in the container, so it's just a lot heavier. It's apples and oranges.
- Q. Let me ask you where you're talking here about the bulk of opioid consumption for common chronic conditions. I wanted to understand

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whether you're talking about chronic use of opioids or chronic conditions that might be treated in a short-term basis.

- A. When I say common chronic conditions, I'm referring to -- generally to low back pain with a normal spine, also called neurostructural low back pain or axial low back pain. I'm referring to fibromyalgia and I'm referring to headache, chronic headache conditions. Those are generally what comes to my mind when I write chronic conditions with regard to opioids, those three.
- Q. And do you agree that some of those chronic conditions might be treated with a short-term burst of opioids?

MS. DICKINSON: Objection to form.

A. Not really. There are chronic conditions where intermittent use of an opioid would be appropriate, like rheumatoid arthritis or gout where the person who is taking the opioid on an intermittent basis really for an acute flare up of a chronic condition, so that could be appropriate. But low back pain with a normal spine, fibromyalgia and chronic headache are conditions where opioids really shouldn't be used.

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Q. When you say the intermittent use for a chronic condition could be appropriate, what's the reason for that?

A. The opioids, when you take them intermittently, they provide pain relief. When you take an opioid every day for weeks and months and years, the opioid will no longer continue to provide pain relief unless the dose keeps going higher because of tolerance. So tolerance sets in rapidly when you're taking the opioid every day.

And so as the -- say you have to keep increasing the dose and as the doses get higher, you'll generally see that the patient's level of function starts to decline. The patient becomes more sedated and of course as the dose gets higher, the patient is more likely to experience side effects, including addiction and overdose.

- Q. You would distinguish between that sort of steady use and an intermittent use of an opioid for a chronic condition?
- A. That's correct. If you take an opioid intermittently, for example, the patient who takes a five-milligram Vicodin a couple times a month on a really bad day, that can be an effective strategy for using an opioid in a

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Page 61 patient who may not be able to tolerate other pain 1 2. treatments. But when they are taking it every day 3 around the clock, that's generally a recipe for disaster. 4 Let me ask you to look back at 5 Exhibit 4, which is the Volkow paper. 6 7 Do you have that there? Α. 8 Yes. Do you see in the first full 9 Ο. 10 paragraph under the heading she's got a statement 11 that says "In 2014 alone, US retail pharmacies 12 dispensed 245 million prescriptions" and then she 13 says "Of these prescriptions, 65% were for short-term therapy, less than three weeks." 14 15 Do you see that? 16 Α. Yes. 17 Is that consistent with your 18 understanding of what the data shows? As I mentioned, I thought it was more 19 Α. 20 than half. I think that's probably accurate. 21 Sixty-five percent for short term makes sense to 2.2 me. 23 Let me ask you to look at Exhibit 9, Ο. 24 please. This is the Edlund study. I wanted to point you to page 562. It's in the left-hand 25

Page 62 column on page 562, the last paragraph. 1 2. It's the third sentence that begins 3 with however and it says "Among the 35% who received opioids, only 5% proceeded to chronic 4 5 use" --6 Α. Yes. 7 -- "and only 3% of these proceeded to Ο. chronic use of high daily doses." 8 9 Do you see that? 10 Α. Yes. 11 Is that consistent with your Ο. 12 understanding of the science? 13 MS. DICKINSON: Objection to form. Foundation. 14 15 To really understand what they're 16 referring to here -- I know this study well, but I 17 do need just a moment to read the preceding 18 paragraph or two, if that's okay. Ο. 19 Sure. 20 Α. Okay. 21 So maybe to set the table a little 22 bit on this study, this was a study of patients with chronic non-cancer pain? 23 I believe this was a study of 24 Α. patients exposed to opioids. I don't --25

Page 63 And it was individuals with new Ο. 1 2. onsets of chronic non-cancer pain? 3 MS. DICKINSON: Objection. Form. 4 Foundation. 5 6 Α. That's correct, yes. 7 0. In the paragraph we're looking at on 562, it says "Among the 35% who received opioids" 8 9 -- so they're talking about among the 35% who 10 received opioids for new onset of chronic 11 non-cancer pain, right? 12 MS. DICKINSON: Objection. 13 Form. Foundation. 14 15 Α. Correct. 16 Then 5% of those proceeded to chronic Q. 17 use? 18 Α. Correct. 19 And only 3% of those proceeded to Q. 20 chronic use of high daily doses, correct? 21 Α. Correct. 2.2 Q. And is that -- have you seen other 23 studies of this same proposition? In other words, chronic non-cancer pain patients who receive 24 opioids and then how many of them progress to 25

Page 64 longer term therapy and how many progressed to 1 2. higher doses? 3 MS. DICKINSON: Objection to form. I've seen studies showing that about 4 Α. half of patients exposed to an opioid don't like 5 it and stop, so studies where they -- of opioid 6 7 use for chronic pain where you see about a 50% drop off rate. Early on, patients just do not 8 9 tolerate being on an opioid. I'm not aware of 10 other studies that found some of the other -- that 11 had some of these other findings which I think are 12 important. 13 Q. And you said you're familiar with 14 this study? You've looked carefully at this one? 15 Α. Yes. 16 If you could look back at your report Ο. 17 at page nine again, you have a sentence in the 18 second full paragraph where you say "There is not 19 and has never been strong evidence to support the 20 effectiveness of using opioids long term to treat 21 chronic pain." 2.2 Do you see that? I do. 23 Α. 24 MS. DICKINSON: Objection to form. 25 Q. When you say long term there, you're

Page 65 referring to more than 90 days? 1 Α. Probably. 3 Ο. And do you agree there is evidence for the efficacy of shorter term use of opioids in 4 treating chronic non-cancer pain? 5 MS. DICKINSON: Objection to form. 6 7 Α. It says, as we've discussed, if someone with a chronic pain condition takes an 8 9 opioid acutely or intermittently, opioids can be 10 effective and there's evidence of that. 11 Let me ask you to look at page ten of 12 your report, please. 13 You say that, at the very top of the page, "Many patients on long term opioids are not 14 15 doing well." 16 Do you see that? 17 Α. I do. 18 Again, when you're using that phrase, Ο. 19 long term, you're referring to more than 90 days? 20 In this case, yes. Α. 21 Ο. When you use the word "many," what 22 percentage do you have in mind? I don't think when I used the word 2.3 Α. "many" I have a percentage in mind. It just means 24 many. It's not -- it's not very precise. 2.5

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didn't use a statistic. That it's common for patients on long-term opioids to not be doing well. I'd have to take a look at the study here I cited. I know it's reference 15 -- oh, I think I may explain it here.

Yeah. So by "many," what I was referring to here is in the next sentence, "A large observational study of long-term opioids found that four out of five chronic pain patients taking opioids continued to experience significant pain and dysfunction."

So "many" was referring to four out of five.

Q. The incidence of opioid addiction in patients treating with long-term opioids is unknown if they're treated pursuant to doctor's orders, right?

MS. DICKINSON: Objection to form.

- A. To assess the incidence rate, you'd have to perform a study where you took lots of patients who've never had opioids, put them on opioids for 90 days and then assessed how many became addicted and I don't think a prospective study like that has ever been performed.
  - Q. And your report at page 107, I

believe, makes this point. If you look at page 107, it's the last paragraph on the page, the second sentence where you say "The incidence of iatrogenic opioid addiction in patients treated with long-term opioids is unknown."

Do you see that?

- A. Yes.
- Q. Again, where you're talking there about long term, you're talking about more than 90 days? That's what you mean?
  - A. Yes.
- Q. Do you agree that there are beneficial uses -- beneficial long-term uses -- of opioids for some patients in pain?

MS. DICKINSON: Objection to form.

A. So if someone is near the end of life and you have the opportunity to escalate the dose and the increasing side effects and dangerousness as you go higher on the dose because you're in a palliative care setting are less concerning. Yes, there are examples where having someone taking an opioid every day like palliative care, where it can make sense where the benefits might outweigh the risks. So yes, I can think of some circumstances.

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Page 68 (Whereupon, Exhibit 2 was marked for 1 identification.) 2. 3 Let me ask you to look at Exhibit 2, Ο. This is one we'll need to open up. please. 4 Α. I'm sorry. Which one is Exhibit 2? 5 Exhibit 2 --6 Ο. 7 MS. DICKINSON: We haven't yet opened it, Doctor. 8 9 MR. HESTER: Sorry. That's a new 10 one. 11 Exhibit 2 is a document we marked. Ο. 12 That exhibit number is by Dr. Mark Sullivan is 13 entitled "Opioid Therapy for Chronic Pain in the Promises and perils." 14 15 Α. Yes. 16 Have you seen this study before? Q. 17 Α. Yes. 18 If you could look at page five, the 19 second sentence under the heading on page five 20 where he says "Generally, LtOT is recommended only 21 for patients with intractable pain and no history 2.2 of substance abuse." 23 Do you see that? 24 Α. Yes, I see where it says that. 25 Q. When he uses LtOT, that's an

abbreviation for long-term opioid therapy?

A. Correct.

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- Q. Do you agree with that statement?

  MS. DICKINSON: Objection to form.
- A. The way it's written, it's hard to agree or disagree with it. I think if he wrote that -- he's writing that it -- it's commonly recommended. If he -- if they had written "We are recommending it," I might disagree. It would be tricky because intractable pain is a very vague term, but I think they're saying generally it's recommended. I don't know that they're necessarily saying they agree with that.
- Q. As I had read this -- and you tell me if this is not the way you understand it -- the point was you would recommend long-term opioid therapy only with a person who has no history of substance abuse and if they have intractable pain.

Is that your understanding of what the study is saying?

MS. DICKINSON: Objection to form.

A. I would probably want to re-read the study. What they're describing here and what the author of this -- the first author on this paper, Mark Sullivan -- one of his contributions to the

literature on opioid therapy was his documentation of the adverse selection process. I think that what he's kind of getting at here, which is that if -- what they found is that the patients who are most likely to wind up staying on opioids long term are the patients one would predict would be the worst candidates for long-term opioid therapy, the ones more likely to be at risk for addiction and overdose.

So it's really, I think, describing the adverse selection process where the lower-risk patients say I don't really like taking this and are more likely to drop off.

Q. And part of his analysis was that longer term users of opioids tended to be people who had a history of substance abuse or other problems that would lead to higher incidence of OUD?

MS. DICKINSON: Objection to form.

A. Yes, so then he's demonstrated that the patients that are more likely to wind up on long-term opioids are patients with mental health problems and patients with a history of drug or alcohol problems are the ones who are more likely wind up on long-term opioids.

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- Q. Let me ask you to look at page nine of this document, Exhibit 2. Dr. Sullivan's report or study.
- A. I'm sorry. Page nine of the same document that's in front of me?
  - O. Yes. Thanks.

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I wanted to point you to the last sentence or two of the first paragraph under the heading. There's a sentence that reads "There are patients who do well with improved function and quality of life on opioid therapy. These are often older adults with low-dose intermittent use."

Do you see that?

- A. I'm sorry. You were in the middle of the page under the heading?
- Q. Yes. On page nine, it's the third sentence at the bottom, at the end of that paragraph. It begins "There are patients" -- do you see that?
  - A. Yes.
- Q. It reads "There are patients who do well with improved function and quality of life on opioid therapy. These are often older adults with low-dose intermittent use."

Page 72 Do you see that? 1 2. Α. I do. 3 Q. Do you agree with that? MS. DICKINSON: Objection to form. 4 Let me just take a look at -- I'd 5 Α. 6 really to have to take a look at -- I don't know 7 if I agree with that or not. I'd have to take a look at the reference and much of what's in the 8 9 literature on this topic is not accurate and so 10 it's possible they were citing an inaccurate 11 paper. I don't know. 12 The literature that is published is 1.3 often what doctors rely on in making their judgments in particular clinical settings, 14 15 correct? 16 I don't know. It's a good guestion. I don't -- I don't know if your average practicing 17 18 clinician is regularly reading medical journals 19 once they're in practice. So I think they're 20 prescribing practices, for example, could be 21 influenced by CME activities, could be influenced 2.2 by a sales rep, could be influenced by what a 23 pharmacist tells them when they call the pharmacy 24 and say "What do you think about XYZ drug for this 2.5 patient?"

Page 73 So I think we'd all like to think 1 2. that all of our doctors are -- spent the weekend with a stack of medical journals, but I doubt that 3 that's really the case. 4 5 You would also agree that doctors' 6 judgments are influenced by their own experience 7 with their own base of patients, correct? Yes, absolutely. Clinical experience 8 Α. 9 influences the way we practice. 10 So doctors gain experience and Ο. 11 judgment from treatment patterns they followed 12 with particular patients, correct? 13 Α. That's correct, yes. 14 Let me ask you to look back at the Ο. 15 Edlund study, Exhibit 9, please. 16 On page 562, the second paragraph, do 17 you see the first sentence of the second paragraph 18 where he says "Our findings have important 19 clinical implications, as they suggest that the 20 risk of an incident OUD is relatively small for an acute trial of opioids." 21 2.2 Do you see that? 2.3 Α. No. 24 Q. Do you see that? 2.5 Α. I do.

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Q. Do you agree with that?

MS. DICKINSON: Objection to form.

A. I think there's recent evidence that's been published that might call that statement into question. I would say the comparative risk of incident OUD for acute pain versus chronic pain or for an acute trial versus a long-term trial is comparatively low, but we're finding studies that show even with acute pain treatment, high rates -- and some of this, you know, depends on how you -- one would define the risk of OUD, whether it's low or high.

So some people might say three people -- 3% of people becoming addicted is high when you think about how severe an addiction is, so it's very difficult to answer that. But more recent trials are -- studies are showing us that even an acute trial of opioids can have a fairly high risk of addiction developing.

- Q. That risk versus the benefits of treatment, that's something doctors have to gauge?
  - A. Correct.
- Q. Let me ask you about the next sentence that says "If chronic opioid therapy is being used, low dose poses much less risk of OUDs

Page 75 than medium dose and medium dose is much less 1 2. risky than high dose." 3 Do you see that? Α. Yes. 4 Do you agree with that? 5 Ο. Yes. So -- when we have no choice 6 Α. 7 but to prescribe an opioid, we should prescribe the lowest possible dose for the shortest duration 8 9 possible, largely to prevent people from becoming 10 addicted. 11 Do you also agree -- let me point you Ο. 12 to the next sentence down where he says "Our data 13 suggests it's almost meaningless to talk of a single rate of OUDs." 14 15 Do you agree with that? 16 Α. T do. 17 MS. DICKINSON: Objection to form. 18 0. And that's because OUDs are the 19 result of a number of factors including dosage and 20 duration and a number of other issues? 21 Mainly dose and duration, yes, so 2.2 that -- yes, to talk about what percent of people 23 were going to become addicted without taking into consideration duration of use and dose is almost 24 meaningless. 2.5

- Q. Let me ask you to look back at the Volkow study, which is Exhibit 4.
  - A. Yes.
  - Q. Let me ask you to look at page 1256.
- A. Yes.

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Q. I wanted to point you to the left-hand column and it's the third sentence down where he says "In contrast, addiction will occur in only a small percentage of patients exposed to opioids."

Do you see that?

- A. Yes.
- Q. Do you agree with that statement?

  MS. DICKINSON: Objection to form.
- A. It depends on how one would define small. If you're talking about a condition as severe as addiction, even a small number could be considered a high risk. For example, if you were talking about a side effect of a medicine causing blindness, if two out of 100 people went blind from a particular medicine, some people might say that's a high risk, some people might say oh, it's only 2%. It's sort of a judgment call.

But it is true that a very large percentage of Americans are exposed to opioids in

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the course of a single year and the number of people who wind up getting addicted is generally pretty low compared to the number of people that are exposed because a lot of people take one opioid and hated it and don't want to take another and much of the prescribing is as we've talked about, a few pills for acute pain where the risk is a lot lower.

- Q. So here, where he's talking not about risk, but about small percentage, you would agree that addiction will occur in only a small percentage of patients exposed to opioids?
  - MS. DICKINSON: Objection to form.
- A. It really -- it's hard to answer that question because some people might say that 2% of people developing severe side effect is a high percentage. So it's really difficult to say.
- Q. Let me ask you to look at the Volkow study, Exhibit 4. Oh, we're on it. Sorry. We're on Exhibit 4.
- Let me ask you to turn to page 1557 --
- A. If I could correct you, though, this isn't a study. This is an editorial or review article. I don't think they've done any

Page 78 independent -- it's a review of literature. It's 1 2. not a study that they're reporting on. 3 Q. Fair enough. So in other words, this is a paper 4 that has reviewed other studies and then reports 5 conclusions based on the conglomeration of the 6 7 studies? MS. DICKINSON: Objection to form. 8 9 Ο. Correct? 10 Α. Yes, correct. They're reviewing the 11 literature, not really reporting on a study they 12 performed. 13 Q. And it's published in the New England Journal of Medicine, which is a reputable journal? 14 15 Α. It is. 16 Let me ask you to look at page 1257, Ο. 17 It's in the left-hand column, the first please. 18 full paragraph on the left-hand column. I'm about 19 probably eight or nine sentences in. 20 There's a sentence that begins 21 "However, we do know that the risk of opioid 2.2 addiction varies substantially among persons, that genetic vulnerability accounts for at least 35 to 23 40% of the risk associated with addiction and that 24

adolescents are at increased risk."

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Page 79 Do you see that? 1 Do you mind if I just read that 2. Α. 3 paragraph? Sure. That's fine. 4 Ο. Α. Yes. 5 Was your yes that you've seen it now 6 Ο. 7 or should I ask you the question? Yes, I've seen it now. You can ask 8 Α. 9 me the question. 10 Q. Okay. 11 So there's a sentence that reads "We 12 do know that the risk of opioid addiction varies 13 substantially among persons, that genetic vulnerable accounts for at least 35 to 40% of the 14 risk associated with addiction and that 15 adolescents are at increased risk." 16 17 Do you see that? 18 MS. DICKINSON: Objection to form. 19 Α. Yes. 20 Do you agree with that statement? Q. 21 I am familiar with evidence that 2.2 adolescents are at increased risk. I haven't 23 seen -- I haven't seen the studies that they're citing. I would like to look at them. A lot of 24 what is in the literature about opioids and risk, 25

especially what's in the literature on risk of addiction I know is incorrect and was influenced by defendants in opioid litigation.

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So I would want to take a look at those studies and make sure that Drs. Volkow and McLellan weren't mislead on that statistic. So I don't know about that 35 to 40% estimate. I do know that adolescents are at high risk for development of addiction when exposed to highly addicted drugs. There are studies that do show us that.

Q. Do you understand generally that genetic variability accounts for at least some of the risk associated with addiction arising out of opioids?

MS. DICKINSON: Objection to form.

A. So genetics play an important role when it comes to addiction to alcohol and the literature there is good. It's not great. We haven't identified the alcohol gene or genes, but we know that alcohol addiction runs in families.

When it comes to highly addictive drugs, like nicotine, heroin, methamphetamine, with highly addictive drugs, repeated exposure in almost anyone puts that individual at high risk

for becoming addicted.

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I think the Sullivan paper that we left a moment ago does a nice job of showing that dose and duration may be more significant when it comes to exposure to a highly addictive drug than what was commonly believed, which is that the individual vulnerabilities are what lead to addiction.

Q. But I want to ask a narrow question, which is do you understand that genetic variability plays a role in addiction risk associated with opioids?

MS. DICKINSON: Objection to form.

- A. I have not seen studies demonstrating with opioids what they're indicating here, so I'd want to look at those studies before I answer your question. I wasn't really asked to opine on that.
  - Q. Okay.

So when you look at this statement referring to risk of opioid addiction varies substantially among persons and the genetic vulnerability accounts for a share of risk associated with addiction, you don't know one way or another on that point?

MS. DICKINSON: Objection.

Misstates the document.

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A. I think we just reviewed a study which I think helps debunk the popular narrative that was promoted by the opioid industry that opioids are not inherently addictive or inherently risky, that there are individuals who are vulnerable and that genetics are largely determinative.

I think that we've got good evidence to suggest that that estimate there might be an overstatement, but I would like to review a study of their citing before I really give you a firm opinion about whether or not I agree with that estimate.

Q. Whether or not you know the specific numbers, have you -- do you have a general understanding that genetic variability has an impact on risk of opioid addiction?

MS. DICKINSON: Objection to form.

Asked and answered.

A. So with highly addictive drugs, dose and duration become much more important than genetic vulnerabilities. I think that genetics can play a role. So, for example, genetics play a role in our personalities and certainly an

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individual who may be genetically prone to have poor impulse control might be someone more likely to repeat use of a highly addictive drug and therefore become addicted to it.

So I do believe that genetics play a role in development of addition to opioids, but with highly addictive drugs, I believe that the inherent effect of the drug on the brain is more important than these genetic differences. It's the repeat use that becomes much more important than genetic vulnerabilities when you talk about a highly addictive drug.

If you talk about a less addictive drug like alcohol, that's where genetic differences become more important.

Q. Are you aware of studies showing that a history of substance abuse is often associated with opioid addiction?

MS. DICKINSON: Objection to form.

A. If you abuse -- I mean, there are studies that -- you don't really need a study. If someone abuses opioids, they're going to be at greater risk of becoming addicted to opioids, similar -- opioid addiction generally develops from repeated use. If you're repeating use

because it's fun and you like the effect, you're abusing it and you're someone who abuses drugs and takes them for fun, yes, that's going to make you at high risk of becoming addicted.

If you're taking opioids repeatedly because the doctor prescribed them, you'll be at high risk for becoming addicted. If you're taking them repeatedly because you're self medicating some dysphoric feelings, you'll be at high risk for becoming addicted.

So again, as demonstrated in the Sullivan paper, what I believe is most determinant is duration of use and dose is also very important.

- Q. I was asking you a slightly different question about substance abuse, though, which is a history of prior substance abuse, are you aware of studies showing that a history of prior substance abuse of other substances is a predictive factor in relation to developing an addiction to opioids?
- A. I'm aware of published papers with more or less that statement, published papers that discuss risk factors for becoming addicted where a history of substance abuse is considered a risk factor.

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Page 85 Ο. 1 Okay. 2. Let me ask you to -- we'll switch gears a little bit here. I wanted to talk about 3 opioid misuse or non-medical use. 4 5 Are you familiar with those terms? 6 Α. Yes. 7 How do you use "non-medical use"? 0. What does that term mean to you? 8 9 Α. Taking an opioid in a way other than 10 prescribed. Non-medical was the terminology that 11 was more commonly used until maybe around 2014 12 when the National Survey starts using the term "misuse" instead of "non-medical use." 13 Either misuse or non-medical use 14 Ο. 15 contemplates taking an opioid for a purpose other 16 than as prescribed? 17 Α. It's a little -- I think it's taking 18 it in a way not prescribed. So if you have it for 19 your knee pain and you're told to take it three 20 times a day but you take it four times a day, that 21 would be considered misuse. 2.2 It would be misuse if a teenager took Q. opioids out of a medicine cabinet without a 2.3 24 prescription and started taking them, right? Objection to form. 2.5 MS. DICKINSON:

A. Right.

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- Q. So when we talk about non-medical use or misuse, we're talking about somebody who is taking a prescription opioid who has not been told pursuant to a prescription to take them, right?
- A. Not exactly. It's someone who is taking an opioid in a way that was not prescribed to them.
- Q. And it includes somebody who never had a prescription at all, right?
  - A. Correct.
- Q. It includes somebody who buys from a street dealer?
- A. Well, actually, I'm sorry. To just go back to it includes someone who was never prescribed them at all, I suppose it could, but in many cases, it involves someone who had received a legitimate prescription at some prior point in time.

So we have studies that show us, for example, with adolescents, that an adolescent who is prescribed an opioid medically and who uses it medically is much more likely to later on misuse. So yeah, so misuse doesn't mean that there wasn't prior legitimate medical use.

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Q. When somebody is misusing, they are not taking it pursuant to a doctor's prescription, correct?

MS. DICKINSON: Objection to form.

- A. An episode of misuse would mean that the opioid is being taken in a way that was not prescribed to them.
- Q. Do you know of the percentage of opioid use disorder that arises from misuse of opioids as contrasted with iatrogenic use?

MS. DICKINSON: Objection to form.

- really looked at that. What we have are specialty data from the National Survey on Drug Use and Health that look at the source of an opioid for individuals who report non-medical use or misuse, but for people who ultimately become opioid addicted, I don't know that there are -- there's good data -- I don't think there's good data out there to tell about their first episode of use, was the first time they ever used an opioid medical or non-medical. I'm not aware of that type of published literature.
- Q. I wanted to not focus so much on first use, I wanted to ask you about people who

become opioid addicted to prescription opioids.

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Is it your understanding that most people who become addicted to prescription opioids have engaged in misuse? Is that your understanding?

MS. DICKINSON: Objection to form.

A. It's a very difficult question to answer because for some people who become addicted, once their addiction develops, they start to misuse opioids and take them in ways that weren't prescribed, which is actually very common in people who become addicted.

There are people who are addicted to opioids who actually take them exactly as prescribed by doctors. We would still consider them addicted because the opioids are having a harmful effect on them and they're kind of stuck on them, but it's hard to tease that out because -- the way you're asking the question, I think you're asking me did their addiction develop from misuse and that's tricky to know.

So, you know, was the misuse a consequence of their addiction or was the misuse what led to their addiction? If you'd like, I could try to answer your question based on my

clinical experience.

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- Q. Why don't you tell me what your clinical experience is?
- A. In my clinical experience, most of my older patients have given me histories that their addiction developed through medical use and I've treated many older adults who had never even smoked a cigarette in their life, but were prescribed opioids and became addicted through medical use.

So I would say the majority of my older patients, people middle-aged and up, it was medical use that led to their addiction. I would say in my younger patients -- my patients who are mostly in their 20s, early 30s -- there, it was more of a mix. I treated many patients who their opioid addiction -- the history I got was really opioid addiction that developed largely through non-medical use, but I've also treated plenty of young people who had chronic medical problems -- Crohn's disease, for example -- and their addiction also was iatrogenic caused by medical use.

I would say, though, for the patients who gave me a very clear history of addiction that

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began through recreational use, even for those patients I don't know that I asked them consistently, but I believe based on the literature that many of those people where their addiction developed from misuse or non-medical use, I think many of them had a prior medical exposure which increased the risk.

They basically -- many of them, I believe, had their first taste of the drug from a doctor or a dentist and they may have liked the effect, they certainly weren't afraid of it, so that made them at greater risk to misuse and ultimately, they became addicted from their misuse.

Q. So a substantial proportion of the younger patients you see have addiction that in your judgment has arisen out of misuse?

MS. DICKINSON: Objection to form.

A. I would say more or less yes, I think yes to your -- to what you're asking. But many of the individuals where that -- these young people where their addiction began through really much an episode of prolonged misuse and that's how they got hooked, many of those individuals, I believe, had some prior medical exposure that made them at

Page 91 greater risk of misuse. 1 2. Q. But then your judgment is that their addiction arose out of misuse, subsequent misuse? 3 MS. DICKINSON: Objection. 4 5 Α. What I'm really saying is that that initial medical exposure played a role, so it's 6 7 difficult to tease this out, but the period that led to their really becoming severely addicted, it 8 9 was not from doctor -- taking doctor's 10 prescriptions repeatedly. It was through diversion. 11 12 Ο. Which is a form of misuse? 13 Α. Yes. 14 Your practice is an addiction Ο. 15 practice; is that right? 16 Α. Yes. My specialty is treating opioid 17 addiction. 18 So when you're seeing older patients Ο. who are addicted to opioids and you said your 19 20 judgment was a number of them or many of them had 21 become addicted to opioids through iatrogenic 2.2 use? MS. DICKINSON: Objection to form. 23 Yes, iatrogenic addiction. 24 Α. But from among the entirety of 2.5 Q.

Page 92 patients treated with opioids by doctors for 1 2. iatrogenic use of opioids by patients, you don't 3 know the percentage that end up with an opioid addiction? 4 5 As we have discussed, we don't have 6 good data to inform us on the incidence rate, to 7 tell us what percentage will become addicted when they're put on opioids long term and since we 8 9 don't have that data, what we rely on -- all we're 10 left to rely on is prevalence data and studies 11 like the studies we have discussed -- Boscarino --12 that have looked at the prevalence of opioid 13 addiction or Opioid Use Disorder in patients on long-term opioids, you find an extremely high 14 15 prevalence of more than 25%. 16 MS. DICKINSON: Tim and Dr. Kolodny, 17 we've been going a little over an hour. 18 Again, Tim, when you get to a stopping point, 19 I think it's a good time for a break. MR. HESTER: Okay. Let me just go a 20 21 little bit longer. 2.2 MS. DICKINSON: Sure. Of course. 23 When you said -- well, actually, I Ο. 24 just got -- I lost my train of thought from that. 25 MS. DICKINSON: I'm sorry. I didn't

Page 93 1 mean to interrupt you. 2. Q. Your phrase was 25%. 3 Could you explain what you just said, Doctor? 4 5 Twenty-five percent or more of Α. 6 patients on chronic opioid therapy will meet 7 criteria for opioid addiction or Opioid Use Disorder and so these are studies that are looking 8 9 at patients already on opioids and you find that 10 Opioid Use Disorder among patients on long-term 11 opioids for pain and that condition is common. 12 And so even though we don't have good incidence 13 studies, the fact that the prevalence is so high 14 suggests that many of these patients develop their 15 addiction through -- suggests that the incidence 16 rate if we did the study would be very high. 17 But when you distinguish between incidence and prevalence, you're saying you don't 18 19 have a cause and effect relationship? 20 MS. DICKINSON: Objection to form. 21 Lacks foundation. 2.2 Α. It's a good question. It's really important here. So the incidence of a disease or 23 24 the incidence rate of a disease is generally reported as the number of new cases of that 2.5

disease in a one-year period, so new development of a disease is the incidence of the disease.

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The prevalence is when you're looking at how many people in a population have a disease and so that's the difference.

Q. So when you're looking at prevalence, you can observe factors in the population that has a disease, but it's often difficult to separate cause and effect because there may be numerous factors in the population that already has the disease, correct?

MS. DICKINSON: Objection to form.

- A. So finding that a disease is highly prevalent in a population doesn't necessarily give you much information about the specific causes of the disease, but when you see that this disease is highly prevalent in a population that's taking this particular medicine repeatedly, that's pretty good evidence that that medicine may have something to do with why that disease is so prevalent.
- Q. But there could be other factors as well beyond taking of the medicine, correct?

  MS. DICKINSON: Objection to form.
  - A. In terms of a prevalence study, a

Page 95 prevalence study doesn't really get at all of the 1 2. factors. It's a study of a population to inform us about potential causes. 3 MR. HESTER: All right. Okay. 4 I think this is an okay time for a 5 6 break, Erin. 7 MS. DICKINSON: Okay. Sounds good. It is 11:20 your time. Do we want to 8 9 come back in just like five minutes and then 10 try to do a shorter segment and take a lunch 11 break? 12 Tim, I don't want to -- I don't know 13 how long you're going today and where a good lunch break time is. I also don't want to 14 15 make Dr. Kolodny starve, so --MR. HESTER: What's your typical 16 17 lunch break, Dr. Kolodny? THE WITNESS: 12:15, 12:30 for lunch, 18 Eastern time. 19 20 MR. HESTER: How about if we aim 21 for -- if we come back in ten and then we aim 2.2 to stop for lunch around 12:30? Is that okay 23 by you? 24 THE WITNESS: That works great. 25 MR. HESTER: I hope you brought a

Page 96 sandwich -- I hope you brought a sandwich to 1 the office. 2. THE WITNESS: I'm at my home office 3 today, so --4 MR. HESTER: Oh, good. Okay. All 5 6 right. Thanks. 7 So let's come back at 11:30. 8 MS. DICKINSON: Sounds great. 9 THE VIDEOGRAPHER: The time is 11:21 10 and we are now off the record. 11 (Recess taken) 12 THE VIDEOGRAPHER: The time is now 13 11:32 and we are back on the record. Dr. Kolodny, let me go back on one 14 Ο. 15 point. 16 We talked a little bit before about 17 this Volkow paper from the New England Journal of Medicine, Exhibit 4. 18 19 Who is Nora Volkow? 20 Α. The director of NIDA, National 21 Institute of Drug Abuse. 2.2 Is she a well-regarded professional Q. in this field? 23 She has tremendous expertise in the 24 Α. neurobiological basis of addiction. Particularly 25

Page 97 methamphetamine addiction is her expertise. 1 Q. You know her personally? 3 Α. Yes, I do. Have you worked with her on projects? 4 Ο. Not really. I don't think we've ever 5 Α. 6 collaborated together. 7 Are her opinions -- in this area of Ο. opioid addiction, is she well regarded for her 8 9 thinking on these issues? 10 MS. DICKINSON: Objection. 11 Form. 12 Lacks foundation. 13 Α. She's well regarded in the subject of 14 the neurobiology of addiction in general and her 15 research is on methamphetamine addiction. 16 not known as an opioid addiction expert. 17 (Whereupon, Exhibit 13 was marked for identification.) 18 19 Let me go back to the Boscarino study 20 which you mentioned and I don't think we've marked 21 this one yet. It's Exhibit 13. Could you open 2.2 that, please? Do you have that one there? 23 premarked as Exhibit 13 a paper by Joseph Boscarino and others entitled "Prevalence of 24 Prescription Opioid Use Disorder Among Chronic 2.5

Page 98 Pain Patients: Comparison of the DSM-5 versus 1 2. DSM-4 Diagnostic Criteria." Dr. Kolodny, have you seen this 3 before? 4 5 Α. Yes. This is the Boscarino report you 6 0. 7 mentioned before our break? I was discussing two reports, but by 8 Α. 9 Boscarino, this is -- and I think I cite both of 10 them -- but yes, this is one of the reports I was 11 referring to. 12 Q. Let me ask you to look at page 191, 1.3 please. 14 Α. Got it. 15 Ο. Maybe to set the table this is a --16 this is a study looking at prevalence of Opioid 17 Use Disorder among chronic pain patients; is that 18 right? 19 I believe so, yes, in primary care Α. 20 settings. 21 And at page 191, in the left-hand column, there's a statement: "The best predictors 2.2 23 of higher Opioid Use Disorder severity are age 24 younger than 65 years, history of opioid use, history of high opioid withdrawal symptoms and 25

Page 99 history of substance abuse treatment." 1 2. Do you see that? 3 Α. You're reading from the bottom of the page? 4 5 Ο. Yes. So he's referring to predictors of 6 7 Opioid Use Disorder severity and yeah, those were -- that's what he listed there. 8 9 Ο. To your understanding, what is this 10 meaning of predictors? What does that mean to 11 you? 12 Factors that could potentially 1.3 predict the likelihood of something happening. 14 They're not necessarily cause and Ο. effect factors? 15 16 MS. DICKINSON: Objection to form. 17 Α. That's correct. 18 Ο. And why are they not cause and effect factors? 19 20 MS. DICKINSON: Objection to form. 21 Because what's being reported on is 2.2 an association, not necessarily a cause. And 23 you're looking at, you know, relative risks among different factors and so -- and certainly none of 24 these factors can result in Opioid Use Disorder or 25

severe Opioid Use Disorder without an opioid. The exposure that has to be there.

- Q. When we say association and when you say that phrase association means something different from cause and effect, can you just explain that?
- A. Yes. You can have two variables that are associated with each other, but not necessarily one causing the other. In some cases, the association is causal. In other cases, there can just be an association.
- Q. So an association is an observation of characteristics in a population?
  - A. Yes.

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- Q. And so this population is chronic pain patients with Opioid Use Disorder? That's the population they're looking at?
- A. Yes. I guess the population that they're looking at would be individuals on opioids, long-term opioids for chronic pain.

  That's the population. And then they're trying to compare those who did or did not develop Opioid

  Use Disorder or even compare among the people who developed Opioid Use Disorder variables that could have helped predict how severe their Opioid Use

Disorder would become.

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Q. If you look over at the next page, please, 192, at the bottom of the right-hand column, there's the last sentence on the page which carries over to the next. It says "Lifetime DSM-5 Opioid Use Disorder was also associated with lifetime alcohol dependence, tobacco dependence, major depression, Generalized Anxiety Disorder, lifetime PTSD, history of childhood adversities, exposure to psychological trauma, illicit drug use, substance use, substance abuse treatment, psychotropic medication use and a history of Antisocial Personality Disorder."

Do you see that?

- A. Yes.
- Q. And again, when they're talking there about associations, are they talking about factors that are not necessarily causal, but are associated with the population of chronic pain patients who had on Opioid Use Disorder?
  - A. Yes.
    - MS. DICKINSON: Objection to form.
- Q. Let me ask you to look at the Edlund study, please, Exhibit 9. Do you have that there? Exhibit 9 is in your stack we already opened.

Page 102 Yes, I have it. Α. 1 2. Q. Let me point you to the right hand column on the first page, 557. There's a sentence 3 down at the bottom of the right-hand page --4 5 right-hand column. Towards the bottom, it says "Studies suggest that individuals with a past 6 7 history of substance abuse disorders have a higher likelihood of developing OUDs." 8 9 Do you see that? 10 Α. Yes. 11 Do you agree with that? Q. 12 MS. DICKINSON: Objection to form. 13 Α. I would agree that there are studies 14 that suggest that, yes. Then it goes on to say "Although 15 Ο. 16 other risk factors remain to be identified" -- do 17 you see that? It's the next clause in that same 18 sentence? 19 Α. Yes. 20 When they refer to risk factors Ο. 21 there, what's your understanding of that term? A factor that could potentially 2.2 Α. influence the risk of a particular outcome. 2.3 Ο. 24 We'll turn topics a little bit. Do you agree that prescription 2.5

Page 103 opioids do not come into a community or not out in 1 a community unless they leave pharmacies after 2. 3 doctors have written prescriptions for them? MS. DICKINSON: Objection to form. 4 Lacks foundation. 5 No, I wouldn't agree with that. 6 Α. 7 Ο. Is your understanding that prescription opioids cannot be sold to the public 8 9 and cannot be dispensed to the public without a 10 prescription? 11 MS. DICKINSON: Objection to form. 12 Yes. My understanding is that a 1.3 prescription -- that for a pharmacy to sell a prescription to a patient, there needs to be a 14 15 prescription written. 16 In particular, with respect to a 17 prescription opioid, a prescription opioid can't leave a pharmacy unless a prescription has been 18 provided? 19 20 Α. Well, unfortunately, it can --21 MS. DICKINSON: Objection to form. 2.2 Go ahead, Doctor. 23 Unfortunately, it can, but it's not Α. 24 supposed to. 2.5 Q. And when you say it can, are you

Page 104 talking about circumstances where there's theft 1 2. from a pharmacy? 3 Α. Theft or pharmacies selling the pills out the back door. 4 5 Q. Okay. Do you -- so let's talk about the 6 7 ways that prescription opioids can come into a community. 8 9 One way is a prescription is written 10 by a doctor and the patients are given a 11 prescription for opioids, right? That's one way 12 they come into the community? 13 Α. Yes. A second way is a pharmacy sells 14 15 prescription drugs out the back door without a 16 legitimate prescription? 17 Α. That would be another way. The third way is there's theft --18 0. 19 I'm sorry. Or a pharmacy staff Α. 20 person -- I mean, I wouldn't take selling out the 21 back door that literally. 2.2 Q. Fair enough. So it would be some circumstance 23 24 where a pharmacy employee sells or gives prescription opioids to somebody without a 25

Page 105 legitimate prescription? 1 Yes. Α. And then a third circumstance would 3 Ο. be where somebody steals prescription opioids from 4 a pharmacy? 5 MS. DICKINSON: Objection to form. 6 7 Yes, that can happen, too. I wouldn't limit the universe to those three, but 8 9 yes. 10 Well, are there other ways that Q. 11 prescription opioids can get into a community 12 aside from the three we've just discussed? 13 Α. Yes. 14 What are they? Ο. 15 Α. Diversion from a hospital is one way. 16 Diversion from the supply chain before the drug 17 makes it to a hospital or to a pharmacy and there are probably other ways as well. 18 19 Q. Okay. 20 What other ways do you have in mind? 21 It could come into a community from 2.2 diversion that happens outside that community as 23 well. So if you're talking within a particular 24 community, there are lots of different ways that opioids can wind up in that environment. 25

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Q. Do you have any evidence with respect to Cabell, Huntington, do you have any evidence of prescription opioids being diverted from hospitals?

MS. DICKINSON: Objection to form.

- A. There's evidence of diversion from a hospital pharmacy. I don't know that that -there might be some other explanation for why one of the hospital pharmacies had massive amounts of opioids that were sold by -- there's evidence -it's possible those opioids went to patients, but it is also possible that there was diversion from that pharmacy. What we have is a serious red flag.
- Q. Now, I wanted to ask you a very specific question, though.

When you're using the term

"diversion," you're saying pills that left a

hospital pharmacy without a legitimate

prescription, right?

MS. DICKINSON: Objection to form. Foundation.

- A. That would be one form of diversion.
- Q. I'm asking for that case do you have any evidence of pills leaving any hospital

pharmacy in Huntington, Cabell without a prescription?

A. I wasn't asked to opine on diversion from hospitals in Cabell County. It's certainly possible that there's good evidence out there.

What I am familiar with is data on the opioids that the defendants sold to a variety of customers, including outpatient pharmacies at a hospital.

Q. Right.

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Do you have -- so I take it you have no evidence and you've not been asked to look at the question of any pills that were diverted without a prescription from hospital pharmacies? You don't have evidence of that?

- A. No, I think I have seen some potential evidence of that. I've seen a red flag. But I did not explore that and I was not asked to opine on that.
- Q. And do you have any evidence of prescription opioids leaving pharmacies in the Huntington/Cabell community without a legitimate prescription? In other words, some mechanism by which they left the pharmacy without a legitimate prescription?

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MS. DICKINSON: Objection to form.

- A. I've seen evidence in the form of data on sales to pharmacies that suggest diversion. From the data that I've reviewed, I'm not really able to opine on the type of diversion, whether it was a pharmacy employee selling the drug or pharmacy employee filling a prescription from a pill mill. From the data that I looked at, I can't really answer your question.
- Q. You've not been asked to provide an opinion on the amount of such diversion?

  MS. DICKINSON: Objection to form.

  Lacks foundation.
- A. I was not asked to investigate or opine on the specific forms of diversion that occurred.
- Q. Do you have any evidence of prescription opioids being diverted from the supply chain before the opioids reached a pharmacy?

MS. DICKINSON: Objection to form.

A. I'm not sure. I can't recall whether or not I've come across documents. I know I have certainly seen evidence that the defendants in this case were cited and had their DEA

registrations suspended for activities that occurred at distribution centers and so, you know -- but exactly what happened at those distribution centers, was it simply a failure to report suspicious orders at these distribution centers or was there also diversion directly from the distribution centers, I can't recall.

- Q. And you've not been asked to opine on the question of whether there was diversion from distribution centers before prescription opioids reached the pharmacies?
- A. That's correct. I wasn't asked to opine on that.
- Q. So you're not aware yourself of any prescription opioids that were in the Huntington/Cabell community that were in that community other than because of a legitimate prescription?

MS. DICKINSON: Objection to form.

Lacks foundation.

- Q. It's a convoluted question. If you want me to ask again, I can try a little better.
  - A. Okay.

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Q. I wanted to ask you about the supply of prescription opioids in Huntington/Cabell.

Are you aware yourself of any evidence that the supply in Huntington/Cabell was in that community for any reason other than because of prescriptions written by doctors?

MS. DICKINSON: Objection to form.

- Your previous question you asked -you used the term "legitimate" and I am aware that there were pill mill doctors in Cabell County and so I wouldn't consider their prescriptions legitimate. If you are asking about supply that came through routes other than a prescription filled at a pharmacy, off the top of my head, I wasn't asked to opine on that, so I'd really have to go back and look more closely at some of the data that I did have access to, but -so it's very hard for me to answer that question.
- It's not something you're being asked to opine on, what percentage of pills in the community were there because of prescriptions that were legitimate versus illegitimate versus diversion? That's not something you're opining on?
- I think I can opine on that. I can certainly opine on the fact that there were literally millions of pills sold by the

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defendants, billions of MMEs sold by the defendants in the county and so that's clear evidence of prescriptions that were written or pills that left pharmacies for illegitimate reasons.

There's no way that Cabell County could have had a legitimate need for billions of MMEs, so that is evidence of a serious problem.

Q. Now, but I wanted to ask a slightly more specific question, which is have you been asked to opine -- I'm asking what you were asked to opine on.

Have you been asked to opine on the mix of pills -- prescription opioids -- that were in Cabell/Huntington because of legitimate prescriptions written by doctors as compared to diversion from various sources? Have you been asked to opine on that?

MS. DICKINSON: Objection to form. Lacks foundation.

A. I was asked to -- I think that the subjects that I was asked to opine on would broadly include that. I was not asked to try and estimate what percentage of the prescriptions could be legitimate versus illegitimate or

specific -- what percentage of diversion might have been from a specific route.

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- Q. And again, just to make it clear, you understand that there's a closed system of distribution when a distributor distributes prescription opioids to a pharmacy? That's a closed system. You understand that?
- A. Yes, I understand that there is supposed to be a closed system and that the defendants in this case were responsible for ensuring where they could that that system would remain closed, but that there was not a closed system.
- Q. Are you aware of any instance where a distributor -- where pills were diverted between a distributor and the time they reached a pharmacy?

  Do you have any evidence of that?

MS. DICKINSON: Objection to form.

- A. I have clear evidence that there was not a closed system. Where the exact leaks occurred in the system, I was not asked to opine on.
  - Q. Okay.

Again, you don't have any evidence of distributors failing to deliver prescription

Page 113 opioids to a pharmacy that was entitled to receive 1 them? 3 MS. DICKINSON: Objection to form. I'm sorry. Could you ask that 4 Α. question again? 5 It's backwards. 6 0. Yes. 7 Do you have any evidence of instances where there was a diversion of pills from a 8 9 distributor before they reached a pharmacy that 10 was entitled to receive them? 11 MS. DICKINSON: Objection to form. 12 I might have evidence. Off the top 13 of my head, I don't recall seeing specific 14 examples of diversion between the distribution 15 center and the pharmacy. 16 Let me ask you to look at page 86 of 17 your report, please. At the very bottom of the 18 page, you refer to prescription opioids flowing into West Virginia communities at levels that 19 20 could never be considered clinically warranted. 21 Do you see that? 2.2 Α. T do. And when you say clinically 2.3 24 warranted, how do you make that judgment? So as we talked about previously, 2.5 Α.

many of the pills that flowed into Cabell and
Huntington were written for 30-milligram immediate
release oxycodone tablets. There were other
high-strength opioids that the defendants sold,
but there were massive amounts of 30-milligram
immediate release oxycodone.

As I mentioned previously, that's -one 30-milligram immediate release oxycodone is
equal to nine Vicodin in a single pill. We've
talked about the appropriate uses of opioids where
for someone maybe near the end of life with
metastatic cancer who's been on opioids for maybe
several months or for a year as their cancer
progressed, there could be cases where they might
be on very high doses of opioids because of the
tolerance and you had to keep going up on the
dose.

It makes no sense that in Cabell
County you would have so many individuals with
metastatic cancer requiring 30-milligram
oxycodone. The amount of those pills is clear
evidence that either inappropriate prescriptions
were written or there was diversion. It could not
have been clinically needed, that amount of
oxycodone.

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You know, maybe I'd give one caveat:

If the world's largest hospice center moved into
the county, treating patients from around the
planet, you know, maybe you could justify it based
on those numbers.

- Q. Are you focusing particularly on the 30 mg Oxycontin? Is that the particular point you're making?
- A. Thirty and 50-milligram oxycodone are extremely high dosage products and it's not really just that. It's also the quantity of the lower dosage pills, like Hydrocodone. How much acute pain could there really have been? If you look at the appropriate use of opioids even for acute pain in other countries, opioids are really not given to patients when they go home from the hospital. They're not using even the low dose in those quantities.

So again, even the massive amount of Hydrocodone in lower dosage pills suggests that the pills flooding into the county could not have been clinically warranted.

Q. You refer to the lower doses being in excess of what would be seen in other countries.

Were the lower dose pills going into

the community comparable to levels that you'd see in other communities in the United States?

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- A. No. Higher. So we know that West Virginia is not just an outlier for opioid-related morbidity and mortality. We know that West Virginia is also a state where there's been much greater amounts of opioids that have flooded into the state and a pretty consistent finding when you compare geographic areas where the opioid crisis may be more severe than -- it's just exactly what I've said: Where there are more opioids, you see more opioid-related morbidity and mortality.
- Q. Have you done a study of how many pills would be clinically warranted?
- A. I haven't performed a study, but I have studied that subject and I've published on appropriate use of opioids and if you're asking me, I would say that the level of consumption in the United States in the 1980s was appropriate and by the early 90s, we start -- it starts to go up and it really takes off in the mid 90s.

So if I had to really draw a line somewhere, I would -- the most conservative place to draw that line would be levels of consumption after 1996 when it starts soaring up. What you're

adding on to what we were consuming before 1996 was clinically unwarranted.

- Q. And so your judgment is any levels higher than 1996 are clinically unwarranted?
- A. That's a conservative estimate because even in 1996, we had already had some significant growth in opioid consumption and in the early 90s, international comparisons would suggest we were overconsuming opioids in the United States, but 1996 is really an inflection point where the consumption takes off dramatically and so I think it's a conservative place to draw the line.
- Q. So you would agree that the levels in 1996 would be a clinically warranted basis, clinically warranted levels?
- A. I would say that if I'm going to be really conservative and try and define where the consumption is likely to be clinically unwarranted, I would draw that line in 1996 and say what came into the county after 1996 -- if you use 1996 as a benchmark -- would be inappropriate, but that would be a very conservative estimate because consumption was already pretty high in 1996.

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Q. Were there -- in your view -- any subsequent evolution in the -- was there a subsequent evolution in thinking about the need for better treatment of pain in the United States since 1996?

THE COURT REPORTER: Erin, you're

muted. Are you objecting?

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MS. DICKINSON: I was. That's okay.

Objection to form.

Thank you, Sara.

MR. HESTER: Nice catch.

THE COURT REPORTER: I saw your lips

moving. I just wasn't sure.

Q. My question is was there a change in thinking about the need for better treatment of pain in the United States in 1996.

MS. DICKINSON: Objection to form.

A. I would say there was a change in the thinking about opioid use for pain that was -- resulted from a deceptive industry campaign to change the way the medical community thought about opioids for pain and that campaign was very effective and is why we started to see -- one of the main reasons we started to see this dramatic shift in opioid prescribing that starts to happen

in 1996.

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Q. I understand your opinion about the engagement of manufacturers in the industry in relation to thinking on pain.

I want to separate that out and I want to ask you a separate question, which is put aside the influences of Purdue, other opioid manufacturers or what have you.

I want to ask is it your view that there was an appropriate enhanced focus on pain treatment after the mid 90s?

MS. DICKINSON: Objection to form.

A. No, I don't think so. I think in the 80s there was evidence that we needed to do a better job with palliative care and not even necessarily prescribing more opioids to people who were near the end of life from cancer, but just that there were ways to help people die with more dignity and be more comfortable.

But I don't believe that from 1996
onward that all this -- the messaging that we had
an epidemic of chronic pain in America or that
millions of Americans were suffering needlessly
because doctors don't adequately address pain, I
believe that was part of this manufactured

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campaign by the opioid industry. And not just opioid manufacturers. When I say opioid industry, I'm really talking about all of the players.

Q. Do you also agree there was an evolution in thinking among the medical community separate and apart from the influence of the industry of opioid manufacturers? Was there an evolution in thinking separate and apart about the importance of pain treatment?

MS. DICKINSON: Objection to form.

A. It's not really possible because when the medical community is hearing from professional societies that are promoting opioids and key opinion leaders that are promoting opioids and accreditation agencies, when all of these messages are coming to the medical community about opioids and behind all of these messages are organizations with financial ties to the opioid industry, organizations that are sitting at the table with opioid manufacturers and distributors, I don't know how you can really tease that out.

I will say that there are many individuals out there and possibly organizations promoting these messages because they believed it was the right thing to do and --

Page 121 I'm sorry. 1 Ο. 2. Α. -- I think they were being influenced. 3 But you agree there were doctors who 4 0. are making their own judgment that pain treatment 5 was something that needed to be improved? 6 7 MS. DICKINSON: Objection to form. There were doctors who were making 8 Α. 9 that judgment based on information that's coming 10 to them from every direction. From every 11 direction we're hearing that patients are 12 suffering needlessly because of an irrational fear 13 of opioids and that the risk of addiction is 14 extremely low and that it's normal and appropriate 15 to put people with backaches on long-term opioids. 16 I'm not asking about -- I'm not 17 asking about the appropriate treatment. 18 asking about the importance of treating pain and 19 was there an increased recognition that it was 20 important to treat pain. 21 MS. DICKINSON: Objection to form. 2.2 Α. But not really separate from this 23 whole campaign. Part of this push to increase 24 prescribing involved creating a perception that we're not doing a good job of treating pain and 2.5

millions of patients are suffering.

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I don't believe that that perception was based on evidence. I believe that you had a manufactured need and that's what doctors are hearing, that if you're a compassionate doctor in the know, you're going to recognize that people with pain haven't been getting their pain treated adequately and you can do a better job. I don't believe that the medical community was failing to treat pain appropriately, though, before 1996.

- Q. The prevailing view in the medical community after 1996 was that there was a need to put more emphasis on pain treatment, right?
- A. And it's happening a little bit before 1996, but it really takes off after 1996. The medical community is hearing from every direction that we need to do this and many well-meaning clinicians are buying into this and teaching it to younger doctors and there are a lot of people who are genuinely falling for these messages, but I don't believe that there was a real need.
- Q. Let me ask you to look at the Sullivan paper, Exhibit 2. That's not a new one. It's one we've opened before.

Page 123 I got it. 1 Α. 2. Q. So let me -- at the very bottom of 3 the first page, he says "The ethical mandate for pain relief as basic care has been extended from 4 end of life to all cancer pain." 5 6 Do you see that? 7 MS. DICKINSON: I'm sorry. Tim, what page? 8 9 MR. HESTER: Page one. I'm sorry. 10 MS. DICKINSON: Okay. 11 MR. HESTER: Bottom of that first 12 page. 13 Q. Do you see that statement? 14 I'm on the first page of the paper, 15 the cover --16 It's under the heading of 0. 17 "Introduction." 18 Α. Yes, okay. 19 It's the last sentence on the page: Q. 20 "In subsequent years, the ethical mandate for pain 21 relief is basic care has been extended from end of 22 life to all cancer pain." 23 Α. Yes. Is that a reflection of what you 24 Q. called the well-meaning or well-intentioned view 25

Page 124 that there needed to be increased emphasis on pain 1 treatment? 3 MS. DICKINSON: Objection to form. I'd kind of have to read through the 4 Α. whole paragraph. Let me get a better sense of 5 6 what he's trying to communicate in that sentence. 7 Is that okay? 8 Q. Sure. 9 Α. Yes. 10 Then, if you look over on page two, Q. 11 the second full paragraph begins "The above 12 arguments for pain management as a fundamental 13 human right have addressed pain treatment broadly." 14 15 Do you see that? 16 Where on page two are you? Α. 17 It's the start of the second full Q. 18 They refer to pain management as a paragraph. fundamental human right. 19 20 Α. Okay. 21 Ο. Do you see that? 2.2 Α. Yes, I see that sentence. 23 So again, does this reflect what you Ο. 24 were referring to as the evolution of well-meaning doctors in thinking more about pain as something 2.5

Page 125 that needed to be managed? 1 2. MS. DICKINSON: Objection to form. 3 Α. I'm sorry. I'm not following your question. 4 5 So you had referred to the fact that 6 doctors were hearing from every corner about the 7 need to increase pain treatment and that this was something that many well-meaning doctors 8 9 assimilated into their thinking and into the medical school courses they were teaching, etc. 10 11 Yes. Α. 12 And so my question is is this a 13 reflection of the point that there was an evolution -- a well-meaning evolution -- in 14 15 thinking about the fundamental right of pain 16 treatment? 17 MS. DICKINSON: Objection to form. 18 I'm not really sure if this is a good Α. 19 example of that. 20 Would you put Sullivan in this Ο. 21 category of people you were talking about, 2.2 well-meaning doctors who thought it was important to focus more on pain treatment? 23 I might put him in a little bit of a 2.4 Α. different category. He's -- so many doctors who 2.5

work in a particular specialty generally see themselves as advocates for people with that condition and so if you ask a psychiatrist, you know, what are the most urgent public health problems in America, they'll tell you untreated depression and so part of that is just a bias we all have of seeing our own clinical field as being something that's exceptionally important and doesn't get enough attention and we have to do better in it. We advocate for it for the conditions that we treat.

Dr. Sullivan is a psychiatrist whose focus has been on improving care for people with chronic pain, which is why he's also done work to highlight how much -- the extent to which patients with chronic pain are harmed by aggressive opioid prescribing, but a lot of his career has focused on improving treatment of pain, especially reducing opioid use.

- Q. But he's focusing here on this growing importance of putting more emphasis on treating pain?
- A. I think a lot of -- you know, certainly if you -- my comments earlier were really referring to what the medical community was

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hearing, the primary care community.

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If you were someone working in the field of pain, your research grants are for pain research, this is what you've dedicated your career to, you're going to view this all probably in a more positive light.

Yes, what we're working on is getting more attention, but objectively, were people with chronic pain better off in the early 90s? I think if you asked Dr. Sullivan, he'd say yes, that we have harmed many people by promoting this concept that we were under treating pain, particularly opioids.

- Q. But there was a change in the medical community in thinking about the need to be more effective in treating pain? There was that change in thinking?
- A. The thinking about pain and treatment of pain and opioids in particular did change dramatically.
  - O. After 1996?
  - A. Yes.
- Q. And you had mentioned before that your judgment about how many prescription opioids are clinically warranted could be affected by

Page 128 clinics and so forth that were in a particular 1 community, right? 3 MS. DICKINSON: Objection to form. Lacks foundation. 4 MR. HESTER: I'll ask it a slightly 5 different way if it's cleaner. 6 7 0. Do you agree with me that the judgment about how many prescriptions could be 8 9 medically warranted in a community could be 10 influenced by the nature of the hospitals and 11 clinics operating in that community? 12 MS. DICKINSON: Objection to form. 13 Α. I'm still struggling with your 14 question. 15 Ο. Well, if you had -- I believe you had 16 said before that if there were an extremely large 17 facility dealing with end-of-life care in Huntington/Cabell, that could affect the level of 18 pills that would be clinically warranted in that 19 20 community, correct? 21 MS. DICKINSON: Objection to form. 2.2 Lacks foundation. Yeah, but I did give an example of if 2.3 Α. 24 the world's largest hospice moved into the community and patients from around the planet were 2.5

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Page 129 traveling into the community to have their end-of-life cancer pain treated, it could potentially be clinically warranted. But I was really -- the point I was trying to communicate is that it's not feasible that the amount of -- that the billions of MME flowing into the county, the millions of pills could have been clinically warranted. Ο. Have you done the study of what the facilities were in the community? What kind of pain clinics, hospices and other facilities there are in the Huntington/Cabell community? Have you looked at that? Again, it's not -- it wouldn't make a difference. It's not feasible that there are types of treatment, hospitals or settings where

difference. It's not feasible that there are types of treatment, hospitals or settings where this -- that could explain all of those 30-milligram immediate release oxycodone tablets or the vast quantity, the dosage of those Hydrocodone pills.

It's just not feasible, so it wouldn't require study. The --

- Q. I asked you a simple question.

  Have you done that study?
- A. I wouldn't study something that

Page 130 doesn't really make sense to study. It's on 1 the -- it's just -- it's not feasible. 3 Yeah, but you haven't done the study Ο. of what the facilities are in that community? 4 5 I wouldn't do a study on whether or 6 not parachutes are effective. 7 Well, it's a little bit different, Ο. right? 8 9 If there are five large hospice 10 facilities in a community, you might think there 11 would be more clinically warranted pills than if 12 there were none, correct? 13 Α. It's possible that the type of 14 treatment symptoms in a particular community could 15 influence consumption in that community. That's 16 possible. But the amount that flowed into the county could not be explained by having more 17 18 hospices. The numbers are astronomical. 19 Q. Do you know the share of 20 prescriptions that were for the 30 mg oxycodone and the 50 mg oxycodone? 21 2.2 MS. DICKINSON: Objection to form. 2.3 I have data in my report on the Α. 24 amount of -- on the different dosage units that

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were prescribed that I could -- I'd be happy to

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Page 131 consult that. 1 Q. Okay. 3 And that includes the share, the share of those -- a share of the dosages at that 4 level versus others? 5 6 MS. DICKINSON: Objection to form. 7 Α. The data on consumption or on dosage units on MMEs sold by the distributors in the 8 9 county came in different formats and so I would 10 just want to -- it's a pretty long report. I'd 11 want to consult that before answering your 12 question. 13 Well, I may look for it over lunch and see if I could find it. 14 15 Individual judgments are made by 16 individual doctors about the prescriptions they 17 believe are clinically warranted for their patients, correct? 18 19 Α. Yes. 20 And the total number of prescriptions Ο. 21 that are written in a particular community reflect 2.2 the amalgamation of the judgments of those individual doctors about the prescriptions that 2.3 they believe are clinically warranted for their 24 patients, correct? 2.5

Page 132 MS. DICKINSON: Objection to form. 1 2. Α. Not necessarily. Well, if for one doctor -- when one 3 Ο. doctor writes prescriptions for the patients he or 4 5 she is serving, those prescriptions reflect that judgment -- that doctor's judgment about what's 6 7 clinically warranted, right? MS. DICKINSON: Objection to form. 8 9 Α. Not necessarily. The doctors are not making the 10 Ο. 11 judgments about what's clinically warranted? 12 MS. DICKINSON: Objection to form. 13 Α. Not necessarily. You think doctors don't make -- when 14 Ο. 15 a doctor writes a prescription, you think the 16 doctor is not making a personal judgment about 17 what is clinically warranted? 18 Α. I would hope that all doctors would, but that's not always the case. 19 20 Well, but that's what doctors are Ο. 21 charged with doing, correct? They're charged with writing prescriptions that are clinically 2.2 warranted? 2.3 Correct. That's what we're all 2.4 Α. supposed to do, but unfortunately, there are 2.5

doctors who become drug dealers and they're not necessarily prescribing what they believe is in a patient's best interest.

Q. So I want to put aside -- I want to put aside a doctor who is a drug dealer or a doctor who would be a pill mill. I want to ask about doctors who are running legitimate practices and making legitimate prescription decisions.

For those doctors, you agree they're making their own judgments about what's clinically warranted?

MS. DICKINSON: Objection to form.

- A. Not necessarily.
- Q. The doctors are not making their own judgments about what's clinically warranted?

  MS. DICKINSON: Objection to form.
- A. Not necessarily. Would you like me to give you an example?
  - Q. Yes.

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A. So a doctor may be unclear about what's in a patient's best interest, so that doctor may contact a pharmacist or may consult colleagues and unfortunately, if that doctor is consulting someone with bad judgment or someone with a financial incentive to give that advice, it

could influence what's done for that patient.

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- Q. Are you aware of any circumstances where doctors call pharmacists to get advice on what to prescribe?
- A. Yes. Extremely common. I've done it in my clinical practice. If there's a medication I need to prescribe -- I generally treat addiction. If I have a patient with a rash and I'm -- they need a steroid cream and I want to help the patient, I may contact the pharmacist and say "Hey, what's a high potency topical steroid for my patient with poison ivy?"

So it's extremely common for doctors and hospitals to work with the hospital pharmacist and doctors who work in the community to communicate and take advice from the pharmacist in that community.

Q. But the doctor isn't calling to ask whether the highest steroidal cream should be prescribed, but is asking what cream would be the right one, correct?

MS. DICKINSON: Objection to form.

A. In the example I gave you for myself,
I might have an idea that the patient with poison
ivy needs a topical steroid and I might ask what's

a good high potency topical steroid, but a doctor could easily call a pharmacist and say "I have a patient with a rash, a patient with bad poison ivy and the over-the-counter stuff is not working.

What would you suggest I prescribe?"

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That, I believe, is probably a very common conversation and it could also similarly be "I have a patient with terrible back pain who tried the over-the-counter stuff. What would you recommend?"

- Ο. You think doctors are making judgments about controlled -- prescription of controlled substances by calling pharmacies?
- I know that doctors consult Α. pharmacists frequently and if you -- and I believe if you were to ask your own pharmacist experts whether or not that happens routinely, I think your experts will tell you it does.
- You think that a doctor would call a Q. pharmacy to get a recommendation on prescribing -on whether to prescribe a controlled substance?

That's your testimony?

Α. I believe that doctors frequently talk with pharmacists about what to prescribe, that pharmacists can influence physician

prescribing practices, including controlled substances.

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You can send a patient to the pharmacy and they don't have what you prescribed because it wasn't stocked. You could send your patient to the pharmacy, you wrote a prescription for Oxycontin, the pharmacy doesn't have Oxycontin and they tell the doctor "Look, we've got Vicodin, but we don't have Oxycontin."

That happens all of the time and I believe your own experts will acknowledge that.

- Q. But the doctor makes the initial judgment about whether or not the patient should be prescribed a controlled substance, right?
  - A. Not necessarily.
- Q. You think doctors are not making those judgments?
- A. I think that doctors consult pharmacists about -- frequently -- about what to prescribe, including controlled substances. Even the dose. A doctor may not know what doses a particular medication comes in. They call the pharmacy and they say "Hey, what's the starting dose for XYZ drug?" and the pharmacist will tell them or they'll say "What's the frequency for this

Page 137 drug? Is it every 12 hours?" 1 When a doctor has to write a 2. 3 prescription for a drug that they're not familiar with that they don't write frequently, they very 4 often will talk to a pharmacist. 5 But the doctor is ultimately charged 6 7 with deciding whether the prescription is clinically warranted, right? 8 9 Α. The doctor and the pharmacist. 10 pharmacist is not supposed to dispense a drug that 11 is not clinically warranted. 12 But the prescription is supposed to 13 be written by the doctor who makes the judgment that is clinically warranted, right? 14 15 Α. That's correct. 16 So when the doctor makes the judgment Ο. 17 that it's clinically warranted for the patient, 18 that's when the prescription can be written, 19 correct? 20 Α. The prescription should reflect what 21 a doctor believes is clinically warranted. 2.2 Q. Then you have a collection of doctors 2.3 who write prescriptions. The total volume of prescriptions across that collection of doctors 24 reflects the combination of judgments by all those 2.5

doctors about the prescriptions that are clinically warranted, right?

A. Not necessarily.

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- Q. Because you think they're not adhering to what they are obliged to do?

  MS. DICKINSON: Objection to form.
- A. In some cases, you've got a very large percentage of prescriptions being written by doctors who aren't doing what's in the best interest of their patient.

Particularly with opioids, we've got good evidence that something like 20% of prescribers in a given area are prescribing 80% of the opioids and so the way that you're asking the question, it's as if the total amount of opioids reflects the view of all of the doctors in a given community.

When it comes to opioids, just a handful of doctors that are operating pill mills or a pain management practice that's in a gray area -- is it really a pill mill or not -- can it have a tremendous impact on consumption in a given community.

Q. Yes, but if a doctor is running a legitimate pain clinic, the doctor is going to be

more likely to write more treatments -- more prescriptions for pain treatment, correct?

MS. DICKINSON: Objection to form.

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- A. No, not really. I think a doctor who is running a legitimate pain clinic is doing everything they can to try and help get patients off of opioids and address their pain with other modalities.
- Q. But you would agree with me that a doctor who runs a pain clinic -- a legitimate pain clinic -- is more likely than a doctor who is in a different kind of practice to be writing more pain prescriptions?

MS. DICKINSON: Objection to form.

A. That's hard to say. I do think that there are doctors with legitimate pain clinics who are writing prescriptions for opioids because the patients come to them hooked on the opioids and they can't just stop them. So yeah, maybe you would see a fair amount of opioid prescribing in a legitimate pain clinic.

But if it's really a legitimate pain clinic, you're seeing a reduction in opioid use in a given patient.

Q. But you agree with me over time that

what you are seeing is doctors are prescribing fewer opioids, right?

MS. DICKINSON: Objection to form.

- A. Yes. So fortunately, the -- we're trending in the right direction. Doctors are beginning to get the message and we're still unfortunately massively overprescribing, but the trend is in the right direction, which is positive.
- Q. And that trend reflects judgments being made by doctors about when opioids are clinical warranted, correct?

MS. DICKINSON: Objection to form.

A. That would be a part of it, maybe even a small part of it. Taking a license away from a doctor like Anita Dawson, who was prescribing massive amounts, also changes.

So when I talk about the prescribing trending in the right direction, I'm really basing that on consumption trends in the United States and where we first saw the biggest dip in consumption trends is when there was a crackdown on pill mills in Florida. Oxycodone for the United States dropped when we started closing down pill mills.

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So a lot of that change is not necessarily a change due to doctors making better judgments. Some of it is to putting doctors who were drug dealers out of business. So it's a variety of factors, but there is --

- Q. But one factor is doctors making clinical judgments about when opioids are warranted, right? That's a factor in the decline of prescription opioid use?
- A. Doctors being better able to weigh risks versus benefits is one of the factors, yes.
  - Q. Let me ask you --

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MS. DICKINSON: We're a little over where we were going to stop. I don't want to exhaust Dr. Kolodny and/or starve him, but, again, if you have a few questions that you want to finish up, certainly go ahead and then we'll break.

MR. HESTER: No, I think this is probably a good time to take a break.

MS. DICKINSON: Okay. Sounds good.

When do you all want to come back?

Dr. Kolodny is in his home, so I think we could be back relatively quickly, but Tim, what do you need?

	Page 142
1	MR. HESTER: Same for me. I'm in my
2	house, too. Life in the pandemic. I could
3	come back in half an hour, but if you want
4	more time, we could do that too.
5	It's a little bit your schedule, Dr.
6	Kolodny, what you want to do.
7	THE WITNESS: I'm good with whatever
8	works best for everybody.
9	MR. HESTER: Erin, what do you want
10	to do?
11	MS. DICKINSON: Why don't we try to
12	come back in a half an hour, give or take.
13	You know, if Dr. Kolodny is not in the chair,
14	we will wait five minutes, but let's give it
15	a shot.
16	It's 12:35 Eastern, so let's try for
17	1:05 and if we get back a few minutes later
18	than that, we're all fine.
19	THE VIDEOGRAPHER: The time is 12:35
20	and we're now off the record.
21	(Recess taken)
22	THE VIDEOGRAPHER: The time is 1:06
23	p.m.
24	We are now back on the record.
25	Q. Dr. Kolodny, let me ask you to look

Page 143 at page 53 in your report, please. 1 Got it. 2. Α. 3 Ο. So this is data on pharmacies in Cabell and Huntington, right? 4 5 MS. DICKINSON: Objection to form. 6 Α. Yes. 7 Ο. I'm sorry. Shipments to pharmacies in Cabell and 8 9 Huntington, right? 10 Α. Yes. 11 It's based on ARCOS data? Q. 12 I believe so, yes. Α. 13 Q. You know that the three distributor defendants in this case didn't have access to the 14 15 ARCOS data? Do you know that? 16 MS. DICKINSON: Objection to form. 17 Lacks foundation. 18 I know that the DEA wasn't routinely Α. sharing ARCOS data, but ARCOS data was available 19 20 to researchers and could be FOIA'd. 21 The type of the data that was 22 available through ARCOS -- actually, even better data than ARCOS -- was certainly available to the 23 defendants through IMS, which is now IQVIA, so --24 I don't know that it's totally accurate to say 25

they didn't have access to ARCOS data.

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- Q. Do you know whether distributors were permitted to have access to ARCOS data?
- A. There's ARCOS data that could be FOIA'd and there have been research publications using ARCOS data. So I don't know that -- so some ARCOS data may have been available to distributors. I'm not certain.

I am aware, though, that the distributors have argued that they didn't have access to ARCOS data and therefore they couldn't -- they didn't have a complete picture of what was happening. I'm aware of that argument that they made, which I don't give much credence to.

- Q. Do you know whether there were any other distributors aside from McKesson, Cardinal and ABDC operating in Cabell and Huntington?
- A. Yes, I believe there were other distributors.
- Q. And do you know whether the three defendants in this case -- Cardinal, ABDC and McKesson -- supplied all of these pharmacies you listed?
  - A. I don't know that they supplied all

these pharmacies. I believe that the big three were responsible for the bulk of what was -- what came into the State of West Virginia and into Cabell County.

Q. But you don't know about these pharmacies in particular?

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- A. I don't know the breakdown for each of these pharmacies for their suppliers and I would imagine some might have changed over time where one distributor would stop supplying them and they'd get filled through another distributor.
- Q. Do you know anything about these pharmacies other than what you read in the Rafowski report?
- A. You know, I read about this from the McCann report and also the Rafowski report. I don't know if I'm aware of information about these specific pharmacies from sources other than those reports. I don't think I am.
- Q. Do you know whether any of the pharmacies on this list served hospice patients?
- A. I don't know if any of the pharmacies on this list had as a -- had a hospice or hospice patients as customers. No, I don't know. But it wouldn't -- certainly wouldn't change my opinion

unless, of course, they were serving the enormous hospice or an enormous number of hospices.

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- Q. Do you know whether any of these pharmacies served long-term care facilities like nursing homes?
- A. I don't know, but I don't think it would have changed my opinion because I'm looking at the dosage unit, the MME and so -- but I haven't really looked at lists of clients.

  Certainly if that information was available, I'd be happy to look at it and opine on it. I don't think it would change my opinion.
  - Q. But you haven't looked?

    MS. DICKINSON: Objection to form.
- A. I have not opined on or looked at the breakdown or the customers, but I don't -- I don't believe it would affect my opinion because, as we discussed previously, the number of pills -- hundreds of millions of opioids that came into the county, billions of MMEs that came into the county -- I can't see how that -- how you could have had long-term care facilities or hospices that could account for this.

And even in a long-term care facility, those are generally nursing homes.

Nursing homes would not -- should not require lots of opioids. You don't want to give patients with dementia or patients who are frail lots of opioids. That's generally a very bad idea.

So the only potential explanation would be the world's largest hospice has just moved to Cabell County.

Q. I was asking a narrow question, whether you looked at it. I wasn't asking whether it changed your opinion, just to be clear on that. Because it will take us too long to get through it if we don't focus on the questions I'm asking.

Let me ask you to look at 57 to 58 of your report. This is where you are discussing two doctors who issued lots of opioid prescriptions, right?

A. Yes.

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- Q. I take it you don't know where these doctors' patients filled their prescriptions? You don't know where or which pharmacy they went to?
- A. I'm not -- I don't know with certainty and don't have that data in front of me, but I could -- pill mill doctors, their patients went to -- a legitimate pharmacy wouldn't have been filling their prescriptions, so in all

Page 148 likelihood, the pill mill doctors prescriptions 1 2. were filled at some of the pharmacies that 3 accounted for the highest amount of opioids dispensed. 4 5 But you don't know that? You're just Ο. assuming that? 6 7 MS. DICKINSON: Objection to form. I don't have a list of these doctors' 8 Α. 9 patients and where they're -- I should say 10 customers, rather than patients. 11 I don't have a list of where they 12 filled their prescriptions. 13 Q. Do you know if Cardinal, ABDC or 14 McKesson supplied any of the pharmacies where 15 those prescriptions were filled? 16 T do know --Α. 17 MS. DICKINSON: Objection to form. 18 Α. I do know that the big three sold 19 Hydrocodone and oxycodone to some -- to outlier 20 pharmacies in the county and pill mill doctors, 21 their patients or customers have prescriptions 2.2 that are filled at outlier pharmacies because 23 legitimate pharmacies won't fill prescriptions of pill mill doctors. 24 So although I don't have the direct 25

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evidence in front of me, I believe it's very likely that the big three sold pills to pharmacies that filled these prescriptions.

- Q. But you already said you don't know which pharmacies these patients filled their prescriptions at, right?
- A. I do not have a list of all of the pharmacies that the customers of these pill mills went to to have their prescriptions filled.
- Q. So you also can't know whether

  Cardinal or ABDC or McKesson supplied any of those

  pharmacies because you don't know which ones they

  were?

MS. DICKINSON: Objection to form.

Asked and answered.

- A. I have a report here and I have seen data showing that the big three supplied outlier pharmacies in the county and it was outlier pharmacies where customers of pill mills went to have their prescriptions filled, so I believe it is very likely that the big three sold pills to outlier pharmacies that filled prescriptions for these doctors and I believe --
  - Q. Sorry. Go ahead.
  - A. Go ahead. I'm sorry.

Q. Well, you're just reasoning that through. You don't -- I'm just trying to nail down a specific question.

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You don't know whether the doctors -these two doctors were writing prescriptions that
were being filled at pharmacies that were supplied
by Cardinal, ABDC or McKesson. You don't know
that.

MS. DICKINSON: Objection to form.

Asked and answered now several times.

MR. HESTER: No, I don't think he's answered it, so --

MS. DICKINSON: You're not liking his answer, but he is answering it.

Dr. Kolodny, you could try again.

Q. I mean, you don't know. You're drawing a logical assumption, but you don't know.

MS. DICKINSON: Objection to form.

Argumentative.

A. So I do know that legitimate pharmacies were not filling prescriptions written by pill mill doctors and so patients or customers of pill mills, they received -- they got their pills from outlier pharmacies and I do know that the defendants in this case supplied outlier

pharmacies in the county. So that's the information I have available.

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And it is possible that there's more data available that I don't recall seeing, but basically that's my best answer at this time.

- Q. What's your basis for your statement that pill mill doctors would not have the prescriptions they wrote filled at legitimate pharmacies?
- A. So I've been treating opioid addiction for many years and some of my patients, before they were in treatment or when they were in treatment and remained in touch with friends who were not in treatment, were getting opioids from pill mills and I learned from my patients, even before there was data available to support this, that when you had a prescription written by a pill mill doctor, it was hard to get that prescription filled at a legitimate pharmacy.

When a healthy looking 25-year-old walked into a pharmacy with cash and a prescription for 240 tablets of 30-milligram immediate release oxycodone, most pharmacists would say "Get the hell out of here." So these individual patients or even sometimes professional

Page 152 rings would have to find the pharmacies that were 1 2. willing to fill these prescriptions. 3 I've learned from my patients that often the pill mill would say "Hey, go to this 4 5 particular pharmacy. That's where you won't have trouble." 6 7 And so the pharmacies that were willing to fill these outrageous prescriptions 8 9 would very quickly start to become outlier 10 pharmacies and so that's part of the basis for my 11 opinion. 12 Any other basis? Q. 1.3 MS. DICKINSON: Objection to form. Do you have other information aside 14 Ο. 15 from what you've learned from your patient base --16 MS. DICKINSON: Objection to form. 17 -- to support the proposition that Q. pill mill doctors would have prescriptions filled 18 only at roque pharmacies? 19 20 MS. DICKINSON: Objection to form. 21 Foundation. Just to be clear, that wasn't my 2.2 Α. position, that they would only have them filled. 23 It was that they would generally only be able to 24 get these prescriptions filled out outlier 25

pharmacies.

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In the example that I gave you of a healthy looking young person with a wad of cash, those patients generally had a hard time getting prescriptions filled at legitimate pharmacies.

I can't say always or never, but I'm telling you what I believe happened routinely and there's evidence that came out I believe in the trial against -- was it SafeScript? -- where the owner of pharmacy was convicted in part for filling prescriptions for pill mill doctors.

There have been reports in the media, law enforcement investigations. So it's not just based on my clinical experience. It's based on other available evidence.

- Q. And the available evidence is things you've read in the media or the testimony from SafeScript?
- A. I would say work by investigative journalists, I believe part of this was covered in an investigation by the House Energy and Commerce Committee and from my knowledge from working on the opioid crisis for many years as an expert.

So from a variety of sources, my opinion that outlier pharmacies were filling

prescriptions from pill mill doctors, I think it is based on lots of information.

- Q. The patient base that you serve in your practice is based around New York City; is that right?
  - A. That's correct.

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- Q. So you haven't worked with patients in the -- in West Virginia who may have been receiving prescriptions from pill mill doctors, right?
- A. I haven't treated patients in West Virginia, but I've talked with patients in West Virginia, I've talked with doctors in West Virginia, I've been to West Virginia on multiple occasions and a part of West Virginia adjacent, I believe, to Cabell County and so no, I didn't treat patients in West Virginia, but I have had firsthand experience learning about the opioid crisis in West Virginia.
- Q. Are you aware of the fact that patients who get prescriptions from pill mill doctors often went to different pharmacies to disguise the volumes they were getting? Are you aware of that?
  - A. I'm aware of the fact that a patient

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or an individual who has opioid addiction and is receiving prescriptions for multiple prescribers will often visit multiple legitimate pharmacies, so -- and pay cash usually for the second or third prescription, use their insurance for the first prescription -- that is common.

But if a patient is visiting a pill mill, there may not be a need for what's often termed doctor shopping. If you're visiting one doctor and you're paying that doctor for an extremely large and inappropriate prescription, you don't have to shop around.

Q. Let me turn you to page 25 of your report.

Do you have that?

- A. It's in front of me.
- Q. The chart at the bottom of the page shows a line for West Virginia oxycodone sales and US oxycodone sales per hundred thousand people, right?
  - A. That's correct.
- Q. It reflects that there's been a drop of more than 50% -- I'm sorry -- roughly a drop of 50% in oxycodone sales in West Virginia?

MS. DICKINSON: Objection to form.

Page 156 Lacks foundation. 1 2. Α. It looks like -- what you're saying 3 looks about right from the graph, but I haven't done the math. 4 5 I was doing the math by seeing that it was more than -- it was above 30 in 2014 and 6 2013 and 2012 and then it's below 15 by 2019. That's how I was getting the math of a 50% drop. 8 9 Is that right? Is that your 10 understanding? 11 It looks about right. Α. 12 And now, your chart is showing that 13 the sales for oxycodone in West Virginia are about 14 the same level as they are nationally in the 15 United States, right? 16 That's correct. Α. 17 Let me ask you the same question on Q. 18 26 of your report, page 26. It shows more than a 50% drop in 19 20 Hydrocodone sales in West Virginia; is that right? 21 Α. Yes, from the peak. (Whereupon, Exhibit 7 was marked for 2.2 identification.) 2.3 24 Q. Right. Let me ask you to look please at 2.5

Page 157 Exhibit 7, which is a new one for you. 1 2. Α. Got it. 3 Ο. Have you seen this letter from the AMA before? 4 5 I should maybe just set the 6 foundation. This is a document we premarked as 7 Exhibit 7, a letter from the American Medical Association to Deborah Dowell of the National 8 9 Center for Injury Prevention and Control dated 10 June 2020. 11 Have you seen this document before? 12 Α. I may have. Let me ask you to look at page two of 13 Q. the document, please. 14 15 Do you see the first bullet on the 16 It says "Opioid prescriptions decreased 33% 17 between 2013 and 2018, including more than 12% between 2017 and 2018 alone." 18 19 Do you see that? 20 Α. Yes, I do. 21 Is that consistent with your understanding of the decline in opioid 2.2 23 prescriptions across the country? 24 MS. DICKINSON: Objection to form. 25 Α. I think so, yes.

Q. Are you aware of any more recent trends -- here we are in 2020. Are you aware of any more recent trends in declines in opioid prescriptions in the US since 2018, 2019? Are you aware of anything more recent?

MS. DICKINSON: Objection to form.

A. I'm not sure if I've seen anything published with more current data on prescribing.

I'm not certain. Off the top of my head, I can't think of any more current data.

The opioid prescribing trends -- I'm just trying to think on the slides that I show -- I think generally ends around 2018.

- Q. Is it your understanding that the trend is continuing to go down?
- A. I don't know. I'm concerned that it's not. It's hard to say. There's been an effort to preserve the status quo of aggressive prescribing and how successful that effort has been recently, I'm not sure.

It's also hard to say what is happening in the context of COVID. Is that causing an increase in opioid prescribing, a decrease. There's been some deregulation of opioid prescribing in the context of COVID, so I

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wouldn't want to speculate on what's happening currently with opioid prescribing trends.

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- Q. Have you looked at any more recent trends in opioid prescribing in West Virginia in particular?
- A. I don't think I've seen any very current data on opioid prescribing trends in West Virginia. I certainly hope that it's continuing to trend in the right direction.
- Q. This trend that we've been discussing that's reflected in your charts, in your report and in this data out of the AMA letter, that trend reflects a greater focus on judgments being made by doctors about risks and benefits of opioids.

Is that your understanding of it?

MS. DICKINSON: Objection to form.

- A. I think that the trend is related to better clinical decision making and possibly law enforcement efforts and medical board efforts that have put criminals -- it's probably both factors.
- Q. You would attribute at least some of this decline to decision making by individual doctors that lead to this decline?
- A. I think increasingly the medical community is better weighing risks versus benefits

when it comes to opioid prescribing.

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- Q. But the medical community, at the same time, is continuing to engage in a substantial level of opioid prescribing, right?

  MS. DICKINSON: Objection to form.
- A. Yes. There continues to be massive overprescribing in the United States. We continue to prescribe far more than any other country on earth and there are current papers published with data, I think, from maybe even as recent as 2019. International comparisons -- I wouldn't call it a trend because it's more of a snapshot or a six-month period and it's not trying to trend it, but it's trying to do an international comparison and there still are no other countries that come even close.
- Q. Would you also agree with me that there's quite meaningful differences between US medical care and other countries in relation to prescription medicines generally?

MS. DICKINSON: Objection to form.

A. Opioids are not the only medicines that are overprescribed in the United States. So there are definitely differences. I'm talking about countries that are doing -- where evidence

would suggest that they may be doing a better job of treating pain and these are countries that prescribe much less opioids.

Q. Let me ask you to look at the first page of the AMA letter, please.

So the third paragraph, the statement by the AMA is "The nation no longer had a prescription opioid-driven epidemic."

Do you see that?

A. I do.

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- Q. Do you understand the basis for the AMA's conclusion on that point?
- A. I think if you think about the opioid crisis as being all about the deaths involving opioids and if you sum up the national data on deaths in the past few years involving prescription opioids have come down a little bit. It's hard to, again, know what's happening right now, but what's really caused a surge in opioid-related overdose deaths has been illicitly synthesized fentanyl. Prescription opioids are heroin are about neck and neck.

So if you think the opioid crisis is really all about people dying from opioids, you might say well illicit opioids are now worse than

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prescription opioids. But if you understand that the opioid crisis is really an epidemic of opioid addiction fueled by overexposing the population to prescription opioids, if you understand that the reason we have record high levels of opioid-related overdose deaths is because of the prevalence of opioid addiction increased and that many of the people now with opioid addiction have transitioned to illicit use, then you really wouldn't use this kind of terminology.

Q. Have you taken issue with the statement by the AMA that the nation no longer has a prescription-driven opioid epidemic?

MS. DICKINSON: Objection to form.

- A. I think it's sloppy language.
- Q. So you wouldn't agree with it?

A. The United States -- the United States is in the midst of a severe epidemic of opioid addiction caused by overexposing the population to prescription opioids. If you were to ask me whether or not nationally illicit opioid deaths outnumber prescription opioid deaths, I would agree with you.

But if you look at people who have become opioid addicted post 1996, the vast

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majority of them developed their addiction taking prescription opioids, so if you frame the problem as all about the deaths, then that language can maybe make some sense.

But if you understand that the opioid crisis is an epidemic of opioid addiction, you recognize that the epidemic of opioid addiction was fueled and continues to be fueled by prescription opioids.

- Q. So this statement, though, the nation no longer has a prescription opioid-driven epidemic, this statement by the AMA, you don't agree?
- A. I don't like that language. I think that's -- and it suggests -- whoever is using that language, it suggests that they don't have a good understanding of the opioid crisis. I don't believe experts who study the opioid crisis would use that type of language.
- Q. So this is written by the CEO of the AMA on behalf -- on behalf of AMA, right?
- A. Yes. And Dr. Madara has written other letters on opioids which similarly reflect a misunderstanding of the opioid crisis and that don't necessarily jive with what many of AMA

members believe or doesn't necessarily jive with some of the work that AMA has done on this issue.

Dr. Madara's positions on opioids in the past have been more in line with the opioid industry.

And I would also point out that the AMA opioid task force, which I think has had some influence here, includes the American Academy of Pain Medicine, which I think is fairly characterized as an opioid industry front group which even your experts have pointed to that organization's consensus statement as one of the reasons that opioid prescribing improperly took off and that group has some real influence on letters like this that the AMA will contribute.

Q. Yeah. I was just asking a narrow question, though.

You disagree with this statement?

- A. I think it -- I don't believe that that statement would be supported by experts who study the opioid crisis. It reflects a misunderstanding of the problem.
  - Q. Okay.

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Let me ask you to look at your report, page 20, please.

Do you have that?

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Q.

A. It's in front of me, yes.

Q. This chart -- this is kind of a simple question, I hope.

This chart, on the middle of the page that shows drug overdose deaths, that's not limited to prescription opioid deaths, right? It includes all drug overdose deaths?

- A. I believe that's all drugs, not just prescription opioids and not just opioids. I believe that's just drug overdose deaths. I think it would include methamphetamine.
- Again, similar question: The chart you show here, opioid drug overdose, that includes illicit opioids such as heroin and fentanyl, right?

Then look over at page 21, please.

- A. I believe it does. I have to go back to the source that I was citing, but I believe this -- I believe this is all opioids, not just prescription opioids. I was citing a report focused on prescription opioids. I'm not really certain.
  - Q. Okay.

But you also understand a little more broadly that, as we just discussed, the rate of

Page 166 deaths from prescription opioid overdoses has been 1 declining somewhat and the increase has been 2. fueled by overdose deaths from heroin and illicit 3 fentanyl, right? 4 5 MS. DICKINSON: Objection to form. Lacks foundation. 6 7 I think that I may have the data. Ι can't say with certainty the extent to which 8 9 prescription opioid deaths are declining or where 10 prescription opioid heroin and illicit fentanyl --11 off the top of my head, I can't really say how 12 they compare to each other, but I would agree with 13 you that in the past few years, the soaring 14 increase in opioid-related overdose deaths in the 15 State of West Virginia have largely been driven by 16 illicitly synthesized fentanyl. 17 Right. Okay. Q. 18 Then over on page two, I think, 19 again, it's a similar clean up question. 20 At the end of the top paragraph, it 21 says in 2018, Cabell County had the highest opiate 2.2 overdose death rate of any county in the nation. That, again, is including all opiate 23 overdose deaths, including illicit fentanyl and 24 heroin, right? 2.5

Page 167 I believe so, because I think if I 1 2. meant prescription opioids, I would have written prescription opioids. If I write opioid, I'm 3 referring to all three. 4 (Whereupon, Exhibit 14 was marked for 5 identification.) 6 7 Ο. Right. That was my assumption, too. I just wanted to confirm that. 8 9 Could you look at Exhibit 14? This 10 is another one we need to open. Let me -- maybe 11 let me pause, just to set the table. This is a 12 document we premarked. It's Exhibit 14. 13 It's a document written by Amy 14 Bohnert and others, "Association Between Opioid 15 Prescribing Patterns and Opioid Overdose-Related 16 Deaths." 17 Is this a document you've seen before? 18 I have to open it up. The one in 19 Α. 20 this envelope? 21 Yes. Sorry. I didn't know you 22 hasn't opened it yet. Sorry. I thought you were referring me to 23 Α. page 14 before, not exhibit --24 2.5 Q. I'm with you.

Page 168 So is this Exhibit 14 something 1 2. you've seen before, Dr. Kolodny? I can say that 3 it's cited in your report. Yes, I'm familiar with this paper. 4 Α. Who is Amy Bohnert? 5 Ο. 6 Α. Amy Bohnert is a researcher. She's 7 done some good work on the opioid crisis prescribing. 8 9 Q. Let me ask you to look at page 1317, 10 please. 11 Yes. Α. 12 At the very bottom, she writes "We Q. 13 therefore approximated the rate of overdose among individuals treated with opioids to be 0.04%." 14 15 Do you see that? 16 No. So I'm on page 1317 --Α. 17 The bottom of the right column. Q. 18 Okay. We therefore approximated the Α. 19 rate of overdose among individuals treated with 20 opioids to be 0.04%. Yes. 21 She's reporting here on a study of 2.2 individuals who died of a prescription opioid 23 overdose during the years 2004 to 2008, correct? 24 Α. I know this paper, I've cited this 25 paper, not just in support, but in other papers

Page 169 that I've written, but it's been a little while 1 2. since I've read it, so I would -- I really would 3 need just maybe a moment to skim through this. Yeah. The place where I could point 4 Ο. you probably -- I mean, look at whatever you need, 5 but the top of the results is what I was 6 7 paraphrasing. Okay. Let me just -- let me just 8 Α. 9 have a few minutes to refresh my memory on this 10 paper. 11 Okay. 12 So this is a study of opioid overdose Ο. 1.3 deaths among patients who were treated with opioids? 14 15 Α. Yes. 16 And she concluded that the rate of 17 overdose deaths among patients treated with 18 opioids was 0.04%; is that right? 19 Α. Yes. 20 MS. DICKINSON: Objection to form. 21 And is that consistent with your 2.2 understanding of what the rates are of overdose 23 deaths among patients treated with opioids? MS. DICKINSON: Objection to form. 2.4 No, not really. I think there are --25 Α.

this study wasn't really designed to answer that question. The objective of this question was really to examine the risk of high doses of opioids on an ultimate death and they found in this study -- they found that of the 752 deaths, 11 -- of the 1,136 individuals who died, 752 of them received prescription opioids during this period of time.

So I don't think they report on that incidence rate, but that's not -- that wasn't the objective of this paper and there are other studies that give -- I think that were designed to answer the question.

In general, though, if you look at the percentage of people exposed to opioids that ultimately died of an opioid overdose, it tends to be a very low number because most -- we're exposing millions of Americans on an annual basis to opioids. The percentages that wind up dying ultimately of an opioid-related overdose at some point compared to the number that got prescribed an opioid does tend to be very low.

But when you have studies that have compared a population exposed to opioids versus the patients that never got an opioid, to look at

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what was the risk of ultimately dying of an opioid overdose if you had been prescribed opioids, you see a dramatic increase in someone who received a legitimate opioid prescription compared to someone who never did and ultimately died of an opioid overdose.

So I think they're reporting on the finding, I think this is good research, but you're picking out a percent here that has nothing to do really with the objective of this study, which was to look at the impact of high doses ultimately on opioid-related deaths.

- Q. They did report this particular finding about this percentage, correct?
- A. They did, but that doesn't really inform us on the percent of people that ultimately die of an opioid overdose after having been exposed to an opioid.
- Q. Well, she was looking at that population, right? She was looking at a population that was exposed to opioids and measuring the percent of those people that ended up dying of an opioid overdose, right?
- A. She looked at people who were treated during a particular period of time and looked at

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another point of time when deaths might have occurred. That really, though, doesn't answer a question about how many people that got a legitimate prescription wound up losing their life from an overdose.

Q. Okay. Let me switch topics a bit.

I wanted to ask you about suspicious order monitoring programs, which is something you discuss in your report.

I take it you're not an expert in suspicious order monitoring programs, are you?

MS. DICKINSON: Objection to form.

- A. So I have expertise in the opioid crisis and some expertise in diversion of opioids, both from my research and from my clinical experience, as we talked about, so I do believe I have expertise in this area and can comment on suspicious ordering.
- Q. Do you have any expertise in the federal rules and regulations that govern the distribution of controlled substances?
- A. Yes, I do have some expertise in the requirements for distributors to have systems in place that would allow them to identify an outlier pharmacy, to immediately flag that pharmacy, to

Page 173 report that pharmacy and not fill the order. 1 2. So I do have an understanding of the 3 law and the impact that the failure of opioid distributors to follow the law, what has happened 4 5 from that. 6 Ο. Sorry. 7 You are not a lawyer? 8 Α. I am not a lawyer. 9 0. And when did you first look at the 10 rules and regulations that govern the distribution of controlled substances? 11 12 I -- probably going back to 2003 from 13 the first work I was doing on the opioid crisis, 14 on expanding access to opioid addiction treatment 15 with buprenorphine and advocacy work on up 16 scheduling of Hydrocodone combination products, so 17 I've had familiarity with the Controlled 18 Substances Act for the past years. 19 Have you ever done any work on Q. 20 compliance issues for the distribution of 21 controlled substances? 2.2 Α. I've never worked for an opioid 2.3 distributor in their compliance division. 2.4 Q. And you've never worked in developing

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a suspicious order monitoring system, have you?

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A. I have worked on the development of red flags for opioid -- risky opioid prescribing and the development of monitoring systems on prescribing based on PDMP data, which is related, but I have not ever worked for a distributor or been consulted by a distributor on how they should go about complying with the requirement by law that they have a system in place to identify inappropriate orders.

- Q. And I take it for the same reason you've never audited a suspicious order monitoring program to evaluate whether it complies with federal laws and regulations?
- A. I've never audited the systems that distributors are required to have by law that those systems that clearly failed.
- Q. Have you ever been consulted about a distributor's suspicious order monitoring program outside the context of being an expert in this litigation?
  - A. No.
- Q. I take it you've never worked for a manufacturer of controlled substances, right?
- A. No.

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Q. You said you never worked for a

Page 175 distributor of controlled substances? 1 2. Α. Correct. 3 Ο. Have you worked for any company that was in the distribution chain for controlled 4 5 substance? I mean, I've been a -- I've worked in 6 Α. 7 hospitals and hospitals are DEA registrants, hospitals that have pharmacies, work closely with 8 9 hospital pharmacists, even the hospital 10 pharmacists involved in ordering the drugs. 11 So I think that's a yes. 12 Ο. Have you ever worked for a pharmacy? 13 Α. I've never been an employee of a 14 pharmacy. 15 Ο. When did you first learn about the 16 suspicious order monitoring programs of Cardinal, 17 ABDC and McKesson? When did you first learn about 18 them? 19 MS. DICKINSON: Objection to form. 20 I think I first learned about them in Α. 21 2011 maybe. I think it was when action was taken 2.2 by the DEA against Cardinal Health and CVS for two 23 Florida pharmacies where literally millions of pills were flowing out of those pharmacies and I 24 think that was maybe the first time I started to 2.5

Page 176 learn about the requirements for distributors to 1 2. have a system in place that would detect a suspicious order instead of fill it and DEA took 3 action against Cardinal Health. 4 5 Have you ever read a specific 6 suspicious order monitoring program of Cardinal, 7 ABDC or McKesson? Have you ever read any of their program documents? 8 9 Α. I've seen in discovery a communication about these systems. 10 11 Have you read any of them? Q. 12 I've read internal communications 13 about these systems. For example, your client had 14 an internal communication about the monitoring 15 system where the communication was basically we're 16 in the business to sell -- to sell products and so 17 let's come up with a way that we don't have to report a suspicious order. Let's increase the 18 thresholds --19 20 I think that wasn't my question. Q. 21 My question was have you read their 2.2 specific program documents? 2.3 MS. DICKINSON: Objection. 2.4 Form.

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I believe that I have.

I've

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Page 177 certainly read public communications about these 1 2. systems which were deceptive communications about 3 these systems that would suggest they were effective when the distributors knew very 4 well that they were ineffective, so --5 I think you know you're not answering 6 7 my question. My question is have you read their 8 9 specific programs? 10 MS. DICKINSON: Objection to form. 11 It's a yes or no. Q. 12 MS. DICKINSON: Objection to form. 13 You asked if he read the specific 14 program documents and he is mentioning --15 MR. HESTER: Then he's answering --16 Erin, he's answering about public 17 communications about the documents. That's 18 not my question. My question, Doctor, is have you read 19 20 the documents -- the program documents --21 themselves? 2.2 MS. DICKINSON: Objection to form. 2.3 So I have reviewed probably thousands Α. of pages of documents in the course of offering 24 opinions on this case and I believe that those 2.5

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pages included descriptions of these systems.

What comes more readily to my mind is -- are the internal communications about these systems and the public communications about these systems, but I do believe I've seen the descriptions of these systems themselves.

- Q. Are you aware that the suspicious order monitoring programs changed over time?

  MS. DICKINSON: Objection to form.
- A. Yes, I'm aware that over time -well, I don't know how much they really changed,
  but I'm aware that the defendants in this case
  claim that they were changing.
  - Q. Do you know what the changes were?

    MS. DICKINSON: Objection to form.
- A. Well, I know what's been claimed about the changes. What was claimed is that they had previously been in some cases relying on subjective judgment of staff who had probably a financial incentive to fill orders and that they had moved to more objective mechanisms for detecting suspicious orders.
- Q. Do you know what any of those objective mechanisms are?
  - A. I know by law that there are some

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requirements that -- for coming up with those mechanisms based on thresholds, based on changes in threshold, based on what's happening in a given community, so I have some knowledge about what they are required to be based on.

But from the internal communications that I've read, I'm suspicious that these mechanisms were really put in place effectively when staff were saying we're in the business to sell, let's find ways of changing the threshold so we could continue to sell.

Q. I understand you want to add that point. I want to ask you something very specific, though, about what you looked, which is do you know what the changes were that were made in the programs?

MS. DICKINSON: Objection to form.

- A. So I am aware that the defendants in this case have claimed that their systems were previously too subjective and have become objective. I am not sure if -- I don't really think one can trust what they're saying about these systems, considering their track record.
- Q. Do you know whether there were changes to make the standards more objective?

MS. DICKINSON: Objection to form.

A. I believe that changes were made.

Certainly your client has claimed it made changes, but your client hasn't really been honest to the public or even to Congress about its role, so I don't know what they've actually done. I know only what they're really saying that they've done.

Q. Okay.

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So you've not reviewed the different program documents to figure out whether objective measures were put in place over time in the programs?

MS. DICKINSON: Objection to form.

- A. I understand what the defendants in this case are communicating. The defendants in this case are saying that they now have better systems in place, they have acknowledged publically and even apologized to the people of West Virginia for the failure of their systems in the past. They say they've fixed them. I hope that they're not lying.
- Q. And you don't know one way or the other?
- A. I don't know if anyone would really know for certain what's happening, particularly

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when we're talking about companies that have been dishonest in their public communications on this topic.

- Q. And how do you decide that a company has been dishonest? What have you looked at to decide that the companies were dishonest about their suspicious order monitoring programs? What are you looking at to make that judgment?
- A. Testimony before Congress. Your client, the CEO of McKesson, testified before Congress that we drive the truck, we do nothing to influence prescribing or demand or we don't market or promote.

That's a blatant lie and we -- we know that for years the defendants in this case and their trade association were communicating to the public that they have effective systems in place and yet we're getting cited and paying million dollar fines after making those communications because they didn't have systems in place.

Q. So your conclusion about misrepresentations is based on reading statements that were made and concluding that they can't have been right?

Page 182 MS. DICKINSON: Objection to form. 1 Lacks foundation. 2. So the CEO of McKesson testifies 3 Α. before Congress that McKesson doesn't promote or 4 5 market drugs --I'm asking about suspicious order 6 7 monitoring programs. I'm talking about why I can't 8 Α. 9 necessarily trust what the defendants in this case 10 are saying about their systems. 11 When the CEO of McKesson is lying 12 before Congress about what its company does and 13 the role that it played, it's very difficult to trust their communication. 14 15 So I do know, to answer your 16 question, that the defendants in this case claim 17 that they have fixed their broken systems. don't know if that can be trusted or not. 18 19 Q. And you don't know if it's true or 20 not? 21 I don't know how we can tell whether or not they're telling the truth this time. 2.2 2.3 And what do you say was false in the Ο. statement by the McKesson CEO? 24 2.5 Α. The McKesson CEO lied to Congress,

told Congress that McKesson does logistics.

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Basically communicated we drive the truck, we do nothing to influence demand, we do not promote or market. More or less, those were his words and that is an absolutely false statement.

We know that McKesson and the other defendants in this case marketed and promoted opioids. They all had an array of services that they sold to manufacturers to help them market and promote, so that is just one example of a false statement and I think it's an especially important example because if a CEO of one of these companies is going to perjure himself before Congress, how can we really trust what's being communicated today about the effectiveness of these systems.

Q. Well, Dr. Kolodny, you're making a serious charge and you're basing that on reading -- reading testimony and making a judgment that it's not correct.

Is that true? That's the way you're making that judgment?

MS. DICKINSON: Objection to form.

A. I'm making a judgment that a false statement was made before Congress, that McKesson doesn't market or promote and that's a false

statement. That's not true. McKesson has marketed and promoted opioids.

- Q. And your assertion is that the CEO -you've read the CEO's testimony and your
  conclusion is it's incorrect?
- A. Incorrect is a bit of an understatement.
- Q. So let me go back to asking you about suspicious order monitoring.

You're saying you don't know whether or not the companies have put in place more objective standards for their suspicious order monitoring programs?

MS. DICKINSON: Objection to form.

- A. What I know is that the defendants in this case are communicating publically that they have fixed their broken systems. I hope that that's true. I would like to think that in the context of certainly the litigation against them and the hundreds of millions of dollars in fines that they've paid in the past for failing to have systems in place that maybe right now they really have fixed these systems, but I don't think we could necessarily take them at their word.
  - Q. So -- and you haven't looked for the

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underlying facts to evaluate whether it's correct or not, what they said about the suspicious order monitoring programs?

MS. DICKINSON: Objection to form.

- A. I think -- I have not reviewed an independent evaluation by a regulator of the current systems that are in place. Maybe such a -- maybe there is a recent evaluation by the DEA of the systems that are currently in place. I haven't seen that. That would help me, you know, if -- that would help me make a decision about the effectiveness today of these systems.
- Q. Let me ask you to look at page 78 of your report. At page 78, in the middle, you cite the CSA and you say each distributor owes a duty to protect the public health and safety by maintaining effective goals against diversion.

Do you see that?

A. I do.

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Q. The diversion you're talking about there is diversion between the distributor and the delivery to a pharmacy that's authorized to receive the drugs; is that right?

MS. DICKINSON: Objection to form.

A. Just give me a moment. Okay. Yes.

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Can you ask the question again?

Q. Is the diversion that you're talking about in that sentence diversion of prescription opioids between the time that the distributor has them in its possession and delivers them to a pharmacy that's entitled to receive them? Is that the diversion you're talking about?

MS. DICKINSON: Objection to form.

- A. No. I think that it's broader. So the requirement of the law is that there's a closed system and that DEA registrants all have their part to play in ensuring that there's a closed system and so I don't believe that the distributor's responsibilities end at where they drop off the pills at the pharmacy and that they're only required to ensure that the system is closed from point A to point B. I think their responsibility is broader than that.
- Q. And it includes what kind of diversion?

MS. DICKINSON: Objection to form.

A. Dirty pharmacies -- that once they get that shipment diverting from pharmacies that are filling pill mill prescriptions, I believe that the distributors are required by law not to

supply narcotics to DEA registrants who on their end are not helping to keep the system closed.

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- Q. That's your understanding of what their obligation is? That they cannot deliver to a DEA registrant?
  - A. My understanding -MS. DICKINSON: Objection to form.
- A. My understanding is that there's a requirement for there to be a closed system and that DEA registrants across that closed system are all responsible for ensuring that that system stays closed and it's my understanding that the responsibility of the distributors to help ensure that that system remains closed doesn't end at dropping off the narcotics at the pharmacy, that their responsibilities are broader than that.
- Q. Are you aware of another use of the term "diversion" which includes, for instance, circumstances where a family member or a friend gives prescription opioids to somebody else who doesn't have a prescription? You're aware of that use of the term?
- A. The term "diversion" would apply to borrowing pills from a friend of family member.
  - Q. And I take it that the distributors

don't have the obligation to present -- prevent
that kind of diversion, right?

MS. DICKINSON: Objection to form.

- A. No. I think that a prudent distributor of narcotics can have an impact on reducing the possibility of that type of diversion as well.
- Q. A distributor couldn't control drugs once they're in somebody's medicine cabinet, right?
- A. Staff person for McKesson can't go into someone's home and prevent them from sharing pills, but when you have a very aggressive prescriber of opioids who is prescribing far more than necessary and you're putting all of these excess pills in someone's home, you're increasing the opportunity for diversion and a distributor can absolutely request from a pharmacy that's an outlier who are the doctors writing these aggressive prescriptions and explain to that pharmacy that we will not continue to supply you if you're going to fill prescriptions for these very aggressive prescribers and by doing so, we'll be able to limit the -- that type of diversion that you're asking me about.

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Q. But you understand there's also diversion that occurs when a legitimate prescription is written for a legitimate purpose by a legitimate doctor, it ends up in a medicine cabinet and could be diverted to family or friends.

You agree with that?

MS. DICKINSON: Objection.

- A. It can happen. But if you've got a well-informed clinician, they're going to know not to prescribe an opioid when an opioid isn't necessary, which for much of the acute pain prescribing where opioids are given out, opioids are not necessary. So if you've got a well-informed clinician, they're not going to give an opioid if they don't have to and when they do have to give an opioid, they're going to give a very small amount, just enough for that patient so that there shouldn't be excess pills.
- Q. But that's a judgment the doctor makes about how many pills, right?

MS. DICKINSON: Objection to form.

A. Not just a doctor, no. A pharmacist who is doing their job well can call the doctor and say "Did you really want to give 20 tablets of

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Vicodin when the patient only needed two? Do you want me to change this, Dr. Kolodny?" and the doctor could give permission.

Certainly up until 2014, on Hydrocodone, that could have very easily been done.

Q. So there's two levels of diversion we're talking about. One level of diversion is within the closed system that you described.

Another level of diversion is when pills are in medicine cabinets or otherwise are being transferred to people without prescriptions.

You agree they're different?

MS. DICKINSON: Objection to form.

- A. They're both -- they're both leaks in the closed system. The closed system includes the patient as part of that closed system and if someone other than that patient takes the pill, it leaked out of the closed system.
- Q. So the closed system -- you think the closed system extends to the time that a patient receives the prescription and has the prescription at home?

MS. DICKINSON: Objection to form.

A. I think that -- my understanding of

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the closed system includes the patient as the end user in this closed system and if that patient's pills are used by somebody else, that's diversion and that's where the leak occurred.

- Q. And is it your understanding that the diversion obligations of distributors extend to controlling what individual patients do with prescriptions?
- A. My understanding is that a prudent distributor of narcotics has the ability to influence even this type of diversion that you're asking me about because aggressive opioid prescriber's prescriptions won't get filled if a prudent distributor of narcotics is doing their job well.
- Q. There's other people who could also assist with that kind of -- addressing that kind of diversion; am I right? For instance, the doctor or the pharmacist who limits the number of pills that are being prescribed.
- A. Absolutely the distributor is not the only DEA registrant in the system that has responsibilities for preventing diversion. The dispenser has responsibilities to prevent diversion and the prescriber has responsibilities

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to prevent the diversion and patients, even though they're not DEA registrants, have some responsibilities as well.

- Q. So in terms of looking at reasons for diversion, you'd been looking at judgments made by doctors, judgments made by pharmacies, judgments made by patients. You're looking at reasons for diversion in addition to the conduct of distributors, right?
- A. And judgments made by distributors, yes.
- Q. But you would include -- when you're looking at factors that cause diversion, you would look at the judgments made by doctors and the judgments made by pharmacies about the decisions to prescribe and the volume of pills, right?
- A. Yes. It's a factor, but a prudent distributor of narcotics could nip that in the bud. It wouldn't happen. If an aggressive prescriber's prescriptions can't get filled because the pharmacy won't supply a -- the distributor won't supply the pharmacy who is filling those prescriptions, it ends there.

So yes, you know, the leak can happen in different parts of the system, but if a

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distributor does its job effectively, there's very little leakage.

- Q. You're saying that the distributor would end up not filling orders from the pharmacies, right?
- A. So if the pharmacist does their job well, they're not going to fill an inappropriate prescription and if they do fill inappropriate prescriptions, they're going to likely be detectable if you've got a good system in place, an effective system in place. So that pharmacy then gets investigated or cut off and you're reducing opportunities for diversion.
- Q. So pharmacies and doctors are also responsible for addressing these issues of diversion in your opinion?
- A. Yeah. There's a lot of responsibility that, you know, can go around. Yes, doctors need to prescribe appropriately.
- Q. And pharmacies, in your view, also need to be limiting the volume of pills and prescriptions?
- A. Pharmacists are health care professionals and they're not vending machines. When they see a prescription that looks

Page 194 inappropriate, they shouldn't fill it. 1 2. (Whereupon, Exhibit 20 was marked for identification.) 3 Let me ask you to look at Exhibit 4. 4 Do we have this yet? I'm sorry. Sorry. Not 4. 5 6 Exhibit 20. We need to open this up. 7 THE WITNESS: Excuse me. I just spilled my coffee. Can we take a break? 8 9 MS. DICKINSON: Why don't we take a 10 break? Let's salvage the documents. 11 go off for five minutes, how about? 12 MR. HESTER: So we'll take a 13 five-minute break. So let's come back at 2:25. 14 15 MS. DICKINSON: Yes, thank you. THE VIDEOGRAPHER: The time is 2:21. 16 17 So a three-minute break? The time is 2:21. We're off the record. 18 19 (Recess taken) 20 THE VIDEOGRAPHER: The time is 2:31. 21 We are now back on the record. 2.2 Dr. Kolodny, right before the break, Q. 23 I was asking you to open up Exhibit 20. Have you 24 been able to open that up? We premarked this Exhibit 20. It's a report by the Attorney General 25

Page 195 of West Virginia entitled "DEA's Failure to Combat 1 Diversion Costs Lives" dated June 4, 2020. 2. 3 Have you seen this document before? It looks familiar. 4 Α. Let me ask you to look at the top of 5 6 page four of the document, please? 7 Α. Okay. I want to ask you about the sentence 8 Q. 9 that begins at the very bottom of page three and 10 over to the top of four. It's a sentence that 11 reads "Of the five million Americans who reported 12 having recently abused opioids, 71% obtained those 13 drugs through diversion, not prescriptions." 14 Do you see that? 15 I do see that. I just want to -- if 16 you'll give me a second, I just want to read the 17 full sentence. 18 Q. Sure. I do. 19 Α. 20 Does that accord with your Ο. 21 understanding that of Americans who recently abused opioids 71% obtained these drugs through 2.2 23 diversion, not prescriptions? 2.4 Α. It really depends on who is misusing the opioid. So for a casual non-medical user, 2.5

misuser, someone who reports on the National

Survey -- I'm assuming the source of that

statistic is National Survey of Drug Use and

Health, even though what's cited here is something
a little different.

But usually, that comes from a survey question on the National Survey of Drug Use and Health where people who do indicate non-medical use or misuse are then asked what was the source for that opioid that you misused and on that survey, people answer the question -- about 71% will generally say it was from a friend or family who borrowed it.

But if you ask the question a little differently or if you look at people who have frequent non-medical use, for example, more than 150 days of the year, they used opioids non-medically, in other words, people likely to be addicted, the source changes and if you're looking at people who are frequent non-medical users, which is a proxy for being addicted to opioids, the number one source is usually a doctor or a drug dealer.

Q. That would be a doctor who is prescribing illicitly? In other words,

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prescribing more than is appropriate?

A. We don't know. We know that when you ask people who indicate on the survey that they misuse opioids frequently, more than half of the year they're doing it, people, again, who are likely to be addicted, you ask them "What's your source," the number one source is from a physician's prescription. Whether these are drug dealing doctors or whether these are well-meaning doctors, you can't really tell from that survey. And drug dealers, I believe, are number two.

In other words, if you're going to misuse an opioid occasionally -- and misuse includes taking an opioid, borrowing somebody's opioid because you have a headache. When you do that, you're taking what's around, what's available. Once you're hooked and you need a regular supply, you can't rely on borrowing pills from friends or family. You need a regular source and that's where doctors and drug dealers begin to play a bigger role.

- Q. Is that scenario, the first source would be doctors, second source would be --
  - MS. DICKINSON: Objection to form.
  - A. My recollection of the survey data

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from 2015 was that, number one, I think it was -actually it might have been based on 2014 data, a
paper by Christopher Jones -- when you look at
frequent non-medical users, the number one source,
I believe, was a physician.

- Q. And there could be, I take it, two kinds of physicians. One, a physician who is legitimately prescribing, thinking it's appropriate and the second kind being a physician who is illegitimately prescribing, not thinking it's legitimate?
- A. Yes. And maybe a third where, you know, you've got the well-meaning doctor, you've got the drug dealing doctor, then there are doctors who are in a gray area where they're not necessarily selling a prescription to anybody who walks in the door, but their prescribing practices don't look all that different from the ones that are selling prescriptions.
- Q. Okay. Let me change gears to talk about marketing issues.

First, do you have any education in pharmaceutical marketing?

- A. Yes, I do.
- Q. What's your education in

pharmaceutical marketing?

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- A. So I've been researching the role of marketing on the prescription opioid crisis for many years, probably going back to 2006.
- Q. So it's not a formal education, but rather it's something you -- you've studied pharmaceutical marketing?
- A. That's correct. I haven't attended business school for studying the marketing of pharmaceutical products, but I have experience in marketing pharmaceutical products.
- Q. What experience do you have in marketing pharmaceutical products?
- A. For New York City's Health

  Department, some of the first work I did on the opioid crisis was to expand access to buprenorphine treatment of opioid addiction in New York City and being that we tried to increase the number of doctors eligible to prescribe buprenorphine and we actually conducted a Health Department detailing program, very similar to the type of detailing program a pharmaceutical company would do where we came up with our own materials and had Health Department staff, visiting doctors, trying to get them to take the trading and get

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them more engaged in prescribing buprenorphine for the treatment of opioid addiction. A term for that might be academic detailing. So I led an academic detailing campaign of a pharmaceutical product.

- Q. So you were calling on doctors to try to explain the attributes and characteristics of buprenorphine?
- A. Yeah. Not myself. I led the initiative. It was Health Department staff that was -- visiting doctors. I gave talks on the topic for medical clinics and medical groups in the City. So yeah, it was individuals and it was also communities and clinics that we tried to get the medical community engaged in treating opioid addiction with buprenorphine.
- Q. Was the idea that by calling on the doctors and explaining the attributes of the products that you would be able to increase the prescribing behavior by doctors?
- A. That was part of it. But really, the first thing we had to do was get them interested in treating addiction and getting -- for buprenorphine, you've got this barrier in that doctors need to take an eight-hour class and then

Page 201 apply to the federal government for a waiver in 1 2. order to treat opioid addiction with 3 buprenorphine. So we had to try to get them all the way through that process so that we could 4 5 increase capacity for treating opioid addiction. (Whereupon, Exhibit 21 was marked for 6 7 identification.) Let me ask you to look at Exhibit 21 8 Q. 9 in your stack. This is another one you need to 10 open. So this is a document we've premarked as 11 Exhibit 21. It's from the AMA Journal of Ethics, 12 August 2020, written by none other than Andrew 13 Kolodny, M.D. 14 I assume you are familiar with this? 15 Α. Yes. 16 Let me ask you to turn to page 744. Ο. 17 It's the second page of the document, I think. 18 You say, at the top of the page, the first full sentence, "Opioid manufacturers 19 20 disseminated false claims regarding the risks and 21 benefits of opioids." 2.2 Do you see that? 23 Α. Which page are you on? 24 Q. Second page of the document. Ι believe it's 744. 2.5

- A. The first full sentence starts with the word "but."
- Q. Right, right, right and I was taking a -- I'm happy to read the whole thing.

"But the fact that opioid manufacturers disseminated false claims regarding the risks and benefits" -- that's what I wanted to focus you on.

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- Q. So here, you're talking about opioid manufacturers that disseminated false claims regarding the risks and benefits of opioids, right?
  - A. That's correct.
- Q. And what were the opioid manufacturers doing to disseminate false claims regarding risks and benefits?

MS. DICKINSON: Objection to form.

A. Well, the opioid industry, which includes the distributors, really communicated in a variety of ways to health professionals that opioids are normal and acceptable for long-term use for conditions where we shouldn't use them. Some of the false messages were to downplay the risk of addiction, to exaggerate the effectiveness

of long-term use, to promote the notion that there should be no ceiling on the dose and you should prescribe as much as people could possibly want, to promote the idea that if a patient looked like they were addicted, that you should -- that they're probably not addicted, it's something called pseudoaddiction, you should give them an even higher dose.

There were a variety of misrepresentations and these were communicated to the medical community, to health professionals, including pharmacists, from many different avenues, from professional societies to front groups to -- even government bodies that had been influenced by this campaign often communicated some of these messages, so that from every direction, we're hearing we need to prescribe more opioids.

- Q. And your point is that it, in your view, understated the risks and overstated the benefits of opioids; is that right?
  - A. Yes.

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Q. And in your letter here or in your paper here, you refer to opioid manufacturers, correct?

Page 204 Α. Yes. 1 2. Q. And then later in the same page you 3 refer to false marketing claims by opioid manufacturers. 4 If you look into the third paragraph 5 under regulatory failures, you're referring to --6 7 Α. Yes. So these, again, you're referring 8 Q. 9 there to marketing claims by opioid manufacturers? 10 Α. That is correct. 11 And are those marketing claims Ο. 12 involving the risks and benefits of opioids? 13 that what the false marketing claims are? 14 Mostly, yes. Α. 15 Ο. And were those false marketing claims 16 being made to prescribers? In other words, 17 doctors and others involved in the prescribing 18 activities? Is that your point? 19 It represents pharmacists and nurses Α. 20 and the public. Every possible way of influencing 21 or increasing the likelihood that a patient would 2.2 wind up taking an opioid was part of this 23 campaign. 24 I just want to point out that this paper was published August 1st, I think, but I 25

wrote it earlier in the year and I wrote this before I was aware of the role that distributors were playing in promoting and marketing. That was something that I've only recently learned about.

- Q. When did you learn about activities by distributors?
- A. I began learning about their failures as DEA registrants going back a while. But in terms of learning that they sold a suite of services to manufacturers to help them market and promote opioids, that was information I learned through working on the litigation and documents that initially became available to me from attorneys working on the case.
- Q. So attorneys working on this litigation supplied you with documents that caused you to develop a view about distributor marketing?
- A. Yes, documents that really, in some case, caused my jaw to draw. Because again, while I had been very aware that distributors were failing in their responsibilities as DEA registrants and contributing substantially to the opioid crisis because of that failure, I didn't -- I was more or less falling for the argument that

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Page 206 all the distributors do is drive the truck which I 1 2. knew was not a reasonable argument, but I thought, 3 you know, they supplied the pharmacies, they supplied pharmacy they shouldn't supply, but I 4 didn't realize that they also promoted and 5 marketed and that was information that was made 6 available to me by attorneys working on this case. You said you wrote this paper earlier 8 Q. 9 in 2020? 10 Α. Yes. 11 When did you write it? Q. 12 I probably began working on it maybe 13 even late 2019. Maybe December of last year, January of this year. 14 15 So this knowledge about distributor's 16 activity in relation to marketing that you're 17 referring to is information you learned in the 18 past year from reading documents? From documents that were made 19 Α. Yes. 20 available to me and to -- yes. 21 Before those documents were made 2.2 available to you, you had no knowledge about distributors marketing? 23 Correct. I didn't know that 2.4 Α. 2.5 distributors promoted and marketed and advertised.

Page 207 I didn't -- yes, that's correct. 1 2. Q. So in this letter, you're talking 3 only about marketing claims made by opioid manufacturers, right? 4 5 So this is an article focused on the 6 FDA and its failure to properly regulate opioid 7 manufacturers, so that's what this is focused on. So I don't believe it really regulates distributor 8 9 marketing. I could be wrong about that. But that 10 it what this -- this is focused on and so it's not 11 really so much about marketing as it is about 12 regulation of claims of safety and efficacy. 13 Q. Your point is you didn't learn 14 anything about distributor marketing related to 15 opioids until after you wrote this paper? 16 Α. That's correct. 17 And what you have learned came has Q. 18 from documents that were supplied to you by counsel? 19 20 Α. And documents that I found on my own 21 going into the discovery database. So you went into the discovery 2.2 Q. database and searched for documents? 2.3 Yes, I did. 2.4 Α. You had no knowledge of any of this 2.5 Q.

Page 208 before you became an expert in the litigation? 1 MS. DICKINSON: Objection to form. 2. That's correct. I had no idea that 3 Α. distributors marketed, promoted, advertised 4 opioids before the litigation. 5 Let me ask you to look at Exhibit 15, 6 0. 7 please. I'm sorry? 8 Α. 9 Ο. Exhibit 15. This one we have to 10 open. 11 Α. Got it. 12 (Whereupon, Exhibit 15 was marked for identification.) 13 14 This is a document we premarked as 15 Exhibit 15. It's written by Scott Hadland and 16 others, entitled "Association of Pharmaceutical 17 Industry Marketing of Opioid Products with Mortality from Opioid-Related Overdoses." 18 Yes. 19 Α. 20 Have you seen this before? Q. 21 Α. I have. 2.2 Let me ask you to look at page two, Q. 23 please, of the document, which is -- yeah, it is page two of the document. 24 Got it. 2.5 Α.

Q. Do you see the statement in the middle of the second paragraph is what I wanted to focus you on, under "Introduction."

There's a sentence that reads
"Direct-to-physician marketing by pharmaceutical
companies is widespread in the United States."

Do you see that?

A. I do.

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- Q. What's your understanding of direct-to-physician marketing?
- A. That would be communications from manufacturers directly to physicians through sales representatives or materials that are sent directly to a physician.
- Q. And the example you gave a few minutes ago of a project you were involved in with buprenorphine -- sorry, I have trouble pronouncing that -- but the example you gave was a form of direct-to-physician marketing, correct?
- A. Yes, it was part of -- yes, a very big part of our initiative was direct-to-physician marketing. Academic detailing is the term when you're not trying to make a profit off of a product, but trying to improve public health.
  - Q. Is it your understanding that

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pharmaceutical manufacturers are the entities that engage in direct-to-physician marketing?

MS. DICKINSON: Objection to form.

- A. I don't know whether one might consider placing journal articles for physicians to read direct-to-physician, so that -- or CME events could, in theory, be considered direct -- I guess that would be considered indirect because usually there's a CME provider. But direct-to-physician could include more than a sales rep visiting a doctor or a material mailed directly to a doctor.
- Q. Well, let's talk about sales reps calling directly on doctors to prescribe particular products.

Am I right that that's typically engaged in by pharmaceutical manufacturers?

A. Sometimes jointly with distributors. So for example, there's evidence that I reviewed from discovery indicating that -- with regard to opioids -- that the campaign in the community increased prescribing would involve telemarketing or sales reps for the companies also visiting the pharmacies while distributors are calling those pharmacies or sending materials to those

pharmacies.

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It's a coordinated campaign that involves the distributors, not just the manufacturers.

- Q. I'm sorry. Go ahead.
- A. To answer your question, on this team, to increase prescribing, the staff for the manufacturer are the ones visiting the doctor.

  That's the role played by the staff. But on that team, meaning engaged in an effort to directly market to prescribers, distributors are on that team.
- Q. What I wanted to focus on is calling doctors directly.

Is it your understanding that that's done by manufacturers? Manufacturers call on doctors to prescribe particular products?

- A. So on this team, to increase the sales to sell more opioids, different players on the team have their role. The role of visiting doctors, the staff who do that, they work for the manufacturer.
- Q. And is it that staff that is responsible for describing the attributes and characteristics of the product to individual

doctors?

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MS. DICKINSON: Objection to form.

- A. The player on this team to increase sales that talks to the doctors and promotes the product directly in a conversation with the doctor, that would be a staff person working for a manufacturer.
- Q. Am I right that in the industry manufacturers are the ones who provide the information to individual doctors about the attributes and characteristics of particular drugs?

MS. DICKINSON: Objection to form.

A. Manufacturers can do that directly through sales reps or those messages can be communicated indirectly to prescribers through a variety of mechanisms that in some cases involve distributors, like distributors running services to publish journal articles that a doctor wants to read that can have deceptive information in them. But the visiting of the doctor -- again, the marketing to the doctor involves more than just a sales rep visiting that doctor. Much more.

But when we're talking about somebody visiting that doctor in their office, that role is

played by somebody who works for a manufacturer.

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Q. And it's the manufacturer or their representatives that provide the specific information to the doctor about the risks and benefits of particular drugs, correct?

MS. DICKINSON: Objection to form.

- A. If we're talking about one way in which there is marketing to doctors, that way that it involves a sales rep visiting the doctor, yes, but there are other ways of communicating misinformation about opioids to prescribers that are not necessarily a manufacturer, but are actually a distributor.
- Q. The information that was developed about the risks and benefits of opioids through clinical study, that was developed by manufacturers, right?

MS. DICKINSON: Objection to form.

- A. I'm sorry. Could you ask that question one more time please?
  - O. Yes. I didn't ask it that well.

The information that was developed about the addictive properties and the risks and benefits of opioids was developed by manufacturers through clinical trials, correct?

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A. Not really. What we know about the addictive nature of opioids, what really -- what we -- the scientific understanding about opioids, their risks and benefits, hasn't really come from the clinical trials that were conducted by drug companies. It's come from medical research going back decades.

- Q. So if you look back at your Exhibit 21, which is the paper you wrote, if you look at the second page, 744, where you refer to false claims regarding the risks and benefits of opioid -- sorry, I don't mean to rush you.
  - A. I found it. Okay. I got it.
- Q. I'm on that second page again. It's

Where you refer to false claims regarding the risks and benefits of opioids, I take it that information had to be developed on the risks and benefits of opioids? Somebody developed a body of knowledge? Whether it was correct knowledge or incorrect knowledge, somebody developed a body of knowledge on that, right?

- A. Not really.
- Q. How did they disseminate false claims regarding the risks and benefits? Did they have

Page 215 any data to support it? 1 2. MS. DICKINSON: Objection to form. 3 In many cases, no, that's --Α. Let me take you back to the 4 Ο. discussion about Purdue. Let's look at the bottom 5 6 of 744 and the top of 745. 7 There's a reference at the very bottom of 744 to the label on oxycodone that had a 8 broad indication, allowing Purdue to promote the 10 drugs used for common conditions. Do you see 11 that? Purdue developed the claims for the label 12 for Oxycontin, right? 13 MS. DICKINSON: Objection to form. Purdue wrote the label and it was 14 Α. 15 ultimately approved by FDA. It would be changed 16 many times over the years, but Purdue wrote that 17 label. That's correct. And then that label then became the 18 Ο. basis for claims about the risks and benefits of 19 20 opioids, right? 21 MS. DICKINSON: Objection to form. 2.2 Α. Some of the claims came from that 23 label, but there were false claims made or 24 misrepresentations made that were unrelated to the 25 language on the label.

Page 216 Ο. That was conduct that Purdue engaged 1 in? 3 Purdue engaged in that conduct, as Α. did others and --4 5 Sorry. Go ahead. Ο. 6 Α. Purdue did engage in that conduct, as 7 did other companies, as did third parties, as did key opinion leaders, as did many well-meaning 8 9 clinicians and teachers who were believing these 10 messages. 11 Ο. And the -- when we talk about --12 strike that. 13 One of the points you had made is 14 your view that the medical community was misled by 15 representations about the risks and the benefits 16 of opioids. 17 Is that a fair characterization of 18 your view? 19 Α. Yes. 20 And in particular, individual Ο. doctors, in your view, were misled about the risks 21 2.2 and benefits of opioids, right? 2.3 Α. Yes. And that information about the risks 24 Q. and the benefits of opioids was conveyed to 25

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doctors through this direct-to-physician marketing by manufacturers, right?

- A. One way in which it was communicated. There were many ways in which communications were communicated and not just to doctors, but to the medical community, including pharmacists.
- Q. The distributors -- the customers for distributors are pharmacies, right?

MS. DICKINSON: Objection to form.

- A. Yes. Well, I mean customers of distributors include pharmacies. Hospitals are also customers of distributors. In some cases, physician practices order products directly from distributors, but the customers of distributors include pharmacies.
- Q. And pharmacies do not engage in direct-to-physician marketing; is that right?

  MS. DICKINSON: Objection to form.
- A. That's a hard one. I'm not -- I'm not sure. There could be some marketing to prescribers by pharmacies. I'm not certain about that. I'd have to think more about it.
- Q. Distributors do not engage in direct-to-physician marketing; is that right?

  MS. DICKINSON: Objection to form.

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A. It depends a little bit on how you would define direct to physician. If you would include in that definition journal articles or CME events, then the answer would be yes because distributors have been involved in producing deceptive journal articles as well as sponsoring medical education for clinicians.

Q. I was talking about calling directly on physicians.

Distributors don't do that, right?

- A. I don't believe that distributors visit doctors in their offices and encourage them to prescribe specific products. On the team to increase sales, that position is played by manufacturers.
- Q. Let me ask you -- let's switch gears a little bit.

Your report starts off with a reference to a definition out of the restatement of torts, right?

- A. Yes, it does.
- Q. And I take it -- again, we've discussed this already -- your field of expertise is not law practice?
  - A. Correct. I'm not a lawyer.

Page 219 You may be happy about that. 1 0. 2. Have you read the restatement second of torts or the restatement third of torts? 3 MS. DICKINSON: Objection to form. 4 Α. I read the legal definition of public 5 6 nuisance that's in my report. 7 Who supplied that to you? Ο. Attorneys that I've been working 8 Α. 9 with, I asked them for that. 10 Ο. Had you ever seen that definition 11 before it was supplied to you? 12 I'm not sure. I had an understanding 13 of public nuisance before this was supplied to me. 14 I'm sorry. Go ahead. Ο. 15 Α. I'm not sure if I had seen that 16 definition. 17 Have you looked at any case law that 18 defines the nature of public rights for purposes of evaluating a public nuisance? 19 20 Α. I have not studied case law. 21 Ο. So you haven't looked at any cases on 2.2 the scope of public nuisance law? My familiarity with a particular case 2.3 Α. involving application of public nuisance to opioid 24 litigation, but I haven't studied case law on this 2.5

Page 220 topic. 1 2. O. That's the Jansen case where you testified as a witness? 3 Correct. 4 Α. Have you looked at any examples under 5 West Virginia law involving the application of 6 public nuisance to the distribution of a product? I haven't studied cases of public 8 nuisance. 9 10 MR. HESTER: Okay. Let me pause for 11 a second. 12 Am I just about at five hours of my 13 time? THE VIDEOGRAPHER: Yes. I wanted to 14 15 say, Tim, you are at four hours and 56 16 minutes. 17 MR. HESTER: How about that? That's 18 pretty good. Okay. Let me just check one more 19 20 thing. 21 THE VIDEOGRAPHER: We'll go off the 2.2 record for a second? 23 MR. HESTER: Yes. Why don't we go off the record for a minute? 24 Could I just consult with my 25

Page 221 colleagues briefly, Dr. Kolodny? Maybe we 1 could take a five-minute break? Is that okay 2. by you? 3 MS. DICKINSON: Yes. Why don't we 4 take a break if we're going to do that? 5 MR. HESTER: Yes, let's do that. 6 7 MS. DICKINSON: All right. Let's take five. 8 9 MR. HESTER: Can we come back --10 let's come back -- we'll even be more 11 generous than five. We'll come back at 3:15. 12 Is that okay? 13 THE WITNESS: That's fine. That sounds good. 14 15 MR. HESTER: Okay. Thank you. THE VIDEOGRAPHER: The time is 3:07. 16 17 We are now off the record. 18 (Recess taken) THE VIDEOGRAPHER: The time is 3:18. 19 20 We are now back on the record. 21 Dr. Kolodny, are there any particular 22 false claims that were made by distributors in 23 relation to marketing of prescription opioids that 24 you have identified? MS. DICKINSON: Objection to form. 25

Page 222 Yes. 1 Α. 2. Q. What are those? 3 MS. DICKINSON: Objection to form. 4 Α. So I'd have to go through my report to come up with multiple examples, but I'll give 5 you just one example off the top of my head was 6 7 part of a promotion by a distributor to pharmacies for a hydrocodone combination product. I think 8 9 this was advertising a rebate and it was for 10 hydrocodone -- a generic hydrocodone product, but 11 I quess it had a name called Stagesic and it said 12 on that promotional material "Has no street value! 13 Drug dealers and abusers don't trust capsules." 14 I've been working on the opioid 15 crisis for many years. I've treated many people 16 who are opioid addicted. The idea that by putting 17 hydrocodone in a capsule form that it has no 18 street value is just a -- totally false, but that 19 was on a communication to a pharmacy by a drug 20 distributor as part of a promotion. That's one 21 example. I can actually think of some other 2.2 2.3 examples off the top of my head, if you'd like. What other ones do you have in mind? 24 Q. Another example would be journal 2.5 Α.

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articles that had misrepresentations about opioids in them that overstated opioid benefits -- basically, exactly what we've described -- and this was an article that was placed in a medical journal by a subsidiary of a distributor after receiving a payment from Teva Pharmaceuticals and in fact, this distributor company staff co-authored and were first author on that article.

And there are many examples of distributors involvement in the normalization of using opioids for conditions where we shouldn't use opioids and examples of communications to pharmacists that would have suggested that being on opioids chronically is something appropriate.

Many distributors -- not many, but I think all of the big three had promotions where or participated in free drugs for patients where there's no co-pay for opioids long term, which I think sends a message that it's normal to be on opioids long term and there are others like patient adherence programs.

Patience adherence programs that distributors were involved in suggest that patients should be adhering to opioids long term when the message for patients who are on opioids

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is really take the lowest possibly dose for the shortest period of time. The idea that a distributor would promote adherence to chronic opioid therapy is really sending a message of normalizing a practice that's not normal. It's not okay to be on opioids long term for low back pain or chronic headache.

There are other examples, if you give me a moment to -- I'm sure I can come up with them.

Q. So let me ask you about a few of the examples you gave.

So the journal article that you said overstated the benefits or understated the addiction risk, you said that was placed in a journal after a payment by Teva Pharmaceuticals?

A. That's correct. I don't know that that -- I'd have to look at that article again to see if it minimized risk of addiction. It had misinformation about opioids. It exaggerated their benefit. It implied that -- actually, maybe even explicitly stated that opioids are appropriate for long term care.

Q. Do you know whether the content of those statements -- the content in those

Page 225 statements -- came from Teva? 1 2. Teva -- in part, Teva was -- staff 3 for Teva were a co-author of this paper. Another co-author of that paper was staff for a 4 5 distributor. But do you know who supplied the 6 7 content about those statements on the addictive risks of the opioids? 8 9 MS. DICKINSON: Objection. The journal article had authors and I 10 Α. 11 believe the authors of the journal article are 12 responsible for the content of that article and 13 among the authors included staff for Teva, staff for a distributor and an academic who works for 14 15 opioid manufacturers. 16 When was that journal article 17 published roughly? 18 MS. DICKINSON: Objection to form. I'd have to look. I'd rather not 19 Α. 20 quess. We have the article somewhere here, so ... 21 So the first one that you mentioned, 2.2 the promotion to pharmacies for hydrocodone about 2.3 whether the product had street value, do you know 24 who supplied that content? Who had that content that was then disseminated to the pharmacy?

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A. I don't know. I don't know who came up with that content. What I know is that a distributor disseminated a blatantly false statement about hydrocodone, stating it has no -- this particular formulation of hydrocodone has "no street value!"

Q. Do you know what that was done, roughly what year?

MS. DICKINSON: Objection to form.

- A. I don't recall the date. I could probably figure it out if I went through my expert report.
- Q. You mentioned the patience adherence programs.

Do you understand that those apply broadly across all prescriptions that are serviced at a particular pharmacy?

MS. DICKINSON: Objection to form.

A. Yes, I do and I think for some classes of drug an adherence program could potentially be a thing. For example, if there are patients with serious mental illness who have poor adherence to their medication for schizophrenia, a program that improves adherence is potentially very helpful.

There are medical problems where if patients don't adhere, they can have a serious medical condition, like a stroke. So you want good adherence to anti-hypertensives.

Opioids are not a drug that for which we should have an adherence program. The message that should be communicated to a patient on opioids is don't take this opioid if you don't absolutely need to take it, take the lowest possibly dose for the shortest period of time.

Any kind of coaching or adherence program designed to get that patient to continue taking the opioid is likely to be harmful for the patient.

- Q. The adherence program only applies if the patient had a prescription from a doctor, right?
  - A. I would imagine so.
- Q. Let me ask you to turn to your report, page 50.
  - A. Yes.
  - Q. Here, you're discussing some lobbying activities, right? Do you see this?
- You're talking about the HDA and --
- 25 A. Yes.

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- Q. Have you had any involvement in lobbying work yourself?
- A. I've been involved in advocacy work, which I don't think is generally considered lobbying because the advocacy that I've been involved in has been for federal regulation of manufacturers. So I would call that advocacy, not lobbying. Lobbying, I think, is when you're trying to -- I think the definition would apply to legislation and I think I maybe had a little bit of experience with lobbying for legislation, but not much.
- Q. And you're not generally familiar with the way lobbying takes place in Washington, are you?
- A. Oh, I'm very familiar with the way lobbying actively takes place in Washington.
  - Q. How do you know about that?
- A. Because I've had staff from congressional offices contact me because of lobbying activities. I've had actually even a staff person for the DEA contact me when distributors were trying to get the Insuring Patient Access Act passed, the Blackburn Marino bill and I've -- in terms of my work on the opioid

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crisis and the role that the opioid industry has played in trying to preserve a status quo of aggressive prescribing, I've been very familiar for many years with their activities, including opioid distributors.

- Q. The knowledge that you have of the Pain Care Forum, where does that come from?
- A. Some of that comes firsthand. I met with the Pain Care Forum.
- Q. You met because they wanted you to be a speaker once?
- A. No, I wanted to talk with them. I was involved in an effort that I believe that would result in much more cautious opioid prescribing and we were at the height of opioid prescribing in the United States and I was concerned that the forum and its members were going to try and interfere with this effort, so I reached out to a Pain Care Forum member for an opportunity to speak with the group.

I didn't think that I would be able to convince all of the members of Pain Care Forum to not fight against this. I thought maybe I could get some to at least sit on the sidelines and not work against our effort. I knew none

would support it. So that's why I reached out and requested an opportunity to meet with the Pain Care Forum.

- Q. So you had one meeting with them?
- A. That's correct. I had one meeting with them. I was aware of them before that meeting and I've certainly been aware of them since.
- Q. And how have you learned of their activities?
- A. I first learned about the Pain Care Forum from federal employees who had been invited to meet with the Pain Care Forum because the Pain Care Forum was attempting to lobby them.
- Q. Have you read deposition testimony or documents about the Pain Care Forum?
  - A. I have.

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- Q. Do you have knowledge about the Pain Care Forum based on any other interactions with them aside from what you've described?
- A. My knowledge of the Pain Care Forum, besides my personal direct interaction with them, comes from what I learned about the Pain Care Forum through discovery documents, through conversations with federal employees who met with

Page 231 the Pain Care Forum and through the work of 1 2. investigative journalists on the role of the Pain 3 Care Forum, playing both on a federal and state level and possibly other sources. 4 5 Let me ask you to look at page 96 of 6 your report, please. 7 Do you have it there? Α. I do. 8 9 Ο. So in the top paragraph on the page, 10 you refer to the Marino Bill. 11 Do you see that? 12 Α. I do. 13 Q. Did you read the bill as it was ultimately enacted? 14 I have read that bill. 15 Α. 16 And have you read the amendments? Q. 17 Α. Probably. I can't remember them at 18 this point, but I believe I have. 19 Q. Do you remember when you read them? 20 Α. No. 21 Was it within the past year? Was it Ο. 22 for purposes of this work? 2.3 Α. It would have been in the past year that I would have looked at it. 24 And you would have looked at it for 2.5 Q.

purposes of this expert work you're doing in the litigation?

A. Well, I was interested in the Marino Bill before there was -- before I was involved in any litigation. My interests and the first time I began learning about it was when I got a call from a DEA staffer, who I believe at the time was working in a congressional office as a liaison to that congressional office, and informed me about this bill and was very concerned that it could pass. I didn't think it possibly could.

At a time when Congress was really beginning to pay attention finally to the opioid crisis, the idea that legislation could be introduced that would weaken the DEA, I never believed that could be possible. That's when I first learned about it, that's when I first read the bill. I think more recently, during the course of my work on the litigation, I looked at the legislation again.

Q. Okay.

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Let me ask you about one of your opinions, which is summarized, I think, at the front end where you talk about the refusal of defendants to take responsibility for the opioid

Page 233 epidemic. 1 2. Are you generally familiar with your 3 opinions on that? Α. Yes. 4 5 This idea of refusal to take responsibility, would you apply that to others who 6 7 have been involved in the opioid epidemic? MS. DICKINSON: Objection to form. 8 9 Α. Yes, I think there are other opioid 10 industry players that haven't taken 11 responsibility. It's not just distributors. 12 Ο. That would include the FDA? 13 Α. It's interesting. For some of the government failures, I see it a little 14 15 differently, but there's -- yes, I think that the 16 FDA has made mistakes that have contributed to the 17 epidemic that they haven't taken responsibility for. So I do think there's a fair amount of blame 18 19 to go around. 20 That would include DEA as another Q. 21 player? 2.2 MS. DICKINSON: Objection to form. I think that the DEA could have done 2.3 Α. 24 a better job. I don't know -- you know, if you're asking me to apportion blame, that's very 2.5

difficult to do. I think that in terms of federal agencies, I think some of the FDA's failures were more significant than the DEA's failures, but both in the case of DEA and FDA, it's very difficult when you're a regulator with limited staff regulating powerful industries.

In the case of the DEA, there are millions of DEA registrants that they're required to regulate and so I think with better funding, richer staffing, the agencies may have been able to -- would have been able to do a better job. So I do think there's blame to go around.

I think one of the differences here is that I wouldn't say that the FDA or DEA's failures were driven by greed, which I would say is true for the opioid --

- Q. When you talk about blame going around, I take it you would include manufacturers of opioids as some of the players that you would see as blameworthy for the opioid epidemic?
- A. Yes. And I think the opioid industry, which included -- includes distributors and manufacturers.
- Q. So you would specifically say manufacturers would be one set of players that you

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Page 235 would see as worthy of blame in relation to the 1 2. opioid epidemic? 3 MS. DICKINSON: Objection to form. Α. 4 Yes. Would you agree that pharmacies are 5 worthy of blame for the opioid epidemic? 6 7 MS. DICKINSON: Objection to form. I think there are bad actors. 8 Α. There 9 were dirty pharmacies, dirty doctors and because 10 they failed or because they were greedy, many 11 people were harmed. In terms of apportioning 12 blame, I just see them as small fish. The big 13 fish were the companies that were selling millions 14 of pills, billions of MMEs, that were really 15 responsible for flooding communities with opioids 16 and that wasn't the pharmacies and/or the dirty 17 doctors. 18 You speak about this idea of refusing Ο. 19 to take responsibility. 20 I take it you're not an expert in 21 corporate social responsibility, right? 2.2 MS. DICKINSON: Objection to form. 2.3 You know, I have an interest and I Α. think some expertise in the field of corporate 24 determinants of health, which I think ties in 2.5

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Page 236 with -- is related to the field of corporate responsibility. Ο. But you're not an expert in corporate social responsibility, are you? MS. DICKINSON: Objection to form. I have not published on that topic or researched corporate responsibility. I have researched the way in which corporations, through their pursuit of profit, have been responsible for public health catastrophe. So this point that you make about failure to take social responsibility or personal responsibility, this is based on your personal view of what you think they should have done, right? MS. DICKINSON: Objection to form. I'm sorry. Are you asking me what my Α. personal view is? No, I'm asking what's your basis for Q.

Q. No, I'm asking what's your basis for saying that companies failed to take responsibility for their actions? How do you form your view?

A. Look at what happened in West

Virginia. Read the deposition of the mayor, the

fire chief or the police officer from Huntington

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or Cabell. The devastation that occurred in these communities where millions of pills flowed into these communities, billions of MMEs. You have corporations that reaped enormous profits while a public health catastrophe was occurring in these communities.

So that -- there's overwhelming evidence that these companies could have done the right thing, could have prevented this from happening and instead profited enormously off of what was occurring and they were aware of what was happening. The whole country was aware of what was happening in Appalachia with prescription opioids and yet they continued to flood these communities. So I don't think that -- I don't think any special expertise is required to say that what happened here was awful and should never happen again.

- Q. And when you say that no special expertise is required, what benchmarks are you looking at to decide that they should have taken responsibility? What benchmarks are you applying?

  MS. DICKINSON: Objection to form.
- A. Death toll. I'm looking at the -- in the State of West Virginia, probably tens of

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thousands or hundreds of thousands of people became addicted. I'm talking about parents who lost children, children who lost parents. We have testimony from, I believe, an EMS worker about coming to the scene of an overdose where a child was crying because the parents have overdosed and the child doesn't understand what's going on.

There's overwhelming evidence that West Virginia has suffered at the hands of these corporations that could have prevented this and the CEOs for the defendants in this case really apologized before Congress.

Q. So you're reading -- you're reading the deposition testimony and the CEO statements and forming this view?

MS. DICKINSON: Objection to form. Lacks foundation.

A. My view is, in part, informed by the testimony from people in the county and from the testimony of the defending CEOs and from my own firsthand clinical experience, experience working in West Virginia or speaking in West Virginia, my research on the opioid crisis.

All of these factors informed my opinion that the defendants in this case and that

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the opioid industry in their pursuit of profit is responsible for millions of cases of addiction and thousands of deaths.

- Q. Are you taking account also, Dr.

  Kolodny, in your views of benefits achieved from reduction of pain for people who are in pain? Do you take that into account?
- A. I appreciate the question, but despite the enormous public health harms that resulted from flooding communities with opioids, we don't have one good piece of evidence that this flood of opioids had led to improvements and treatment of pain.

In fact, it's the opposite. We're doing a worse job of treating pain by overprescribing opioids. In fact, patients with chronic pain have been disproportionately harmed by aggressive prescribing of opioids, so you'd like to think that with this enormous public health price that we paid, maybe there was some benefit. No evidence that I'm aware of of America doing a better job of treating pain than in countries where opioids are prescribed cautiously.

Q. Have you consulted any standards on corporate social responsibility in forming your

views or it's really based on these judgments you just described?

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MS. DICKINSON: Objection to form.

A. I reviewed corporate integrity statements for defendants in opioid litigation. I have seen statements in some of these documents to the effect that as responsible corporate citizens, we don't do business with criminals. That's not what I've seen.

I've seen that the defendants in this case continued to do business with manufacturers that were convicted of felonies for lying about their products, continued to help them sell more of their opioids. So I've seen some of these documents, but I haven't really seen the companies that have these documents live up to what's in them.

Q. And that's -- I'm just trying to understand the standards you're applying in formulating your view that they had some obligation to do more in terms of taking responsibility.

What standards are you applying?

A. I think I'm applying the standard of what a prudent distributor of narcotics should

Page 241 have done. 1 Q. And where do you develop that 3 standard on prudent distributors? Where do you get that? 4 5 Well, I don't think you need to take 6 a class or go to -- or earn a degree on what a 7 prudent distributor of narcotics should do. So when you talk about doing business 8 Q. 9 with companies that were cited for illegal 10 conduct -- which is another factor you mention in 11 your report, right? 12 Α. Yes. 13 Ο. Do you agree with me that -- I take 14 it one of the examples that you give is Purdue, 15 that pled guilty and that distributors continued 16 to work with; is that right? 17 Α. That's one example. 18 0. Teva is another? 19 Yes, that's another example. Α. 20 Do you agree with me that all of the Ο. 21 conduct for which they pled guilty was past 2.2 conduct? 23 MS. DICKINSON: Objection to form. In other words, at the time they pled 24 Q. quilty, they were pleading quilty to crimes in the 25

past? Do you agree with me?

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- A. I don't see how you can plead guilty to crimes you haven't yet committed.
- Q. Yeah. Maybe it's a truism, but I want you to confirm. It was past conduct that they were pleading guilty to. They weren't found to be engaged in a current criminal activity, were they?

MS. DICKINSON: Objection to form.

- A. The cases that were built up against them were based on evidence of crimes that they had committed I guess when files were -- as they're building the case. What we do know is that both in the case of Teva, which had Cephalon, or Purdue, they were continuing to commit crimes, even while pleading guilty to past crimes.
- Q. But the guilty pleas that were known were in relation to past activities, right?
- A. These cases were focused on evidence of crimes that had been committed in the past.
- Q. Am I right that the DEA and the FDA and the West Virginia regulators permitted these manufacturers to continue to do business after their guilty pleas?
  - A. I don't know. Your question suggests

or implies that the DEA or the FDA had the authority to put them out of business after they pled guilty. I'm not sure that they have that legal authority to put them out of business.

Q. Are you unaware that they are registrants under the DEA that have to have continuing registration in order to continue to distribute controlled substances?

MS. DICKINSON: Objection to form.

- A. I understand that you -- yes, you need a DEA registration.
- Q. And if they didn't have a DEA registration, they could not have continued to manufacture controlled substances, right?
  - A. Yes, that's correct.
- Q. And DEA did not withdraw their registrations, did it?
- A. I don't know that DEA would have had the ability to put them out of business, out of the narcotics business permanently. I don't know whether or not they had the legal ability to do that.
- Q. Do you know whether the Justice
  Department had the ability, if it so chose, to
  require them to cease selling controlled

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substances as a condition of their guilty pleas?

- A. So when we talk about the DEA, I'm really answering about the Department of Justice.

  I do not know whether or not the Department of Justice could have put an end to their work in the narcotics business.
- Q. Is it your understanding they continued to have the authority to sell products in the United States after these guilty pleas?

  MS. DICKINSON: Objection to form.
  - A. Yes.

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- Q. You've published, Dr. Kolodny, a number of papers on the opioid crisis; is that right?
  - A. I have.
- Q. And have you ever published a paper stating that the distributors caused the opioid crisis?
- A. I'm not sure. I know that I testified before Congress, I think in 2018 or 2017. In my testimony, I discussed both the manufacturers and the distributors.

But much of my work has really focused on the manufacturers because it really wasn't until recently in this whole crisis that

the role that distributors were playing became clearer.

- Q. And in particular, when you say more recently that the role became clearer with respect to distributors, that's through work you did in this case during 2020?
- A. No. It became clearer when investigative journalists started to publish Pulitzer-winning stories about West Virginia being flooded with opioids and with Congress conducting an investigation, so -- and that certainly was when I began to pay more attention and through my work on the litigation, that's when I learned a whole new role that distributors had played that I had been previously unaware of.
- Q. Let me ask you -- but going back to my question about whether you published a paper stating that the distributors were the cause of the opioid crisis, you have not published such a paper, have you?
- A. I have never written a paper saying that the distributors caused the ultimate crisis.
- Q. If you were writing a paper about who caused the opioid crisis, you would not identify the distributors as the sole cause, would you?

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- A. I don't think I would write a paper saying that any particular entity or party was a sole cause.
- Q. Have you done any -- have you engaged in any effort to allocate the causes among different sources?

MS. DICKINSON: Objection to form.

A. I haven't done research to try and apportion blame, but if you ask me for my opinion based on my understanding of the available evidence, I believe the opioid industry, including the distributors, bears the bulk of responsibility for the opioid crisis, that the opioid industry was really a primary substantial cause of the epidemic and certainly -- I'm sorry.

Certainly if distributors had acted appropriately, there would be no opioid crisis.

From day one, had the distributors told Purdue they were not going to flood communities with Oxycontin, from day one, had they done their job, I don't believe we would have an opioid addiction epidemic.

Q. And your view is -- when you say "done their job," that would have been not selling Purdue products?

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MS. DICKINSON: Objection to form.

A. Certainly going back to 2003, when the GAO publishes a report about how Purdue Pharma is deceptively promoting Oxycontin for conditions that it shouldn't have been prescribed, they could have said at that point we're not going to carry Oxycontin, we're not going to stock it.

Imagine how things would look differently.

- Q. So when you say you would assign the bulk of the causation or the blame to the opioid industry, that includes manufacturers as well as distributors in your view?
  - A. Yes.

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Q. And I take it you'd also assign blame or causal obligations to the medical community itself?

MS. DICKINSON: Objection to form.

A. That's a little trickier. I'd say there are doctors who, like the corporations, were driven by greed, but I think that many -- it's hard to blame your average clinician who was hearing from every different direction because of the opioid industry's efforts that they need to be prescribing much more if they're going to do the

right thing, that if you're an enlightened clinician, you'll know that addiction is extremely rare, this is the compassionate way to treat just about any complaint of pain. It's hard to fault the medical community when millions of dollars were invested in deceiving them.

- Q. And the medical community believed at the time that it was doing the right thing?

  MS. DICKINSON: Objection to form.
- A. I think to this day there are many aggressive prescribers who think they're doing the right thing because they were deceived.
- Q. And would you also agree with me that drug cartels and criminals dealing in heroin and illicit fentanyl contributed to the opioid crisis?

  MS. DICKINSON: Objection to form.
- A. I would say that they contributed to the death toll. I think that the very sharp increase in the prevalence of opioid addiction in the United States and in West Virginia was really driven by prescription opioids, but among people with the condition of opioid addiction, illicit fentanyl is responsible for a sharp increase in the death toll among people who have the disease.

But I don't really think the cartels

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are responsible for this sharp increase in the number of people with this disease. That I believe the opioid industry bears the bulk of the blame.

Q. If you were to write a paper about the opioid epidemic, I take it you would include this whole mosaic that we've been talking about, this whole range of factors that you would say contributed to the crisis?

MS. DICKINSON: Objection to form.

A. Not necessarily. It would depend what the focus of the paper was. If I'm writing a paper where the focus is to critique the FDA, you know, and it's going to focus on probably manufacturers and what FDA could have done differently, depends on what I'm focusing on.

MR. HESTER: Okay. Dr. Kolodny, you've been very patient. Thank you. I'm going to pass my time now to my colleagues.

Thank you.

MS. DICKINSON: Sara or the videographer, can we get a time estimate as to how much time we have left?

MS. McNAMARA: Let's take a break

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                    Can we go off record, please?
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                   MS. DICKINSON:
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                                    Sure.
                    THE VIDEOGRAPHER: The time is 3:56
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           and we're now off the record.
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                    (Recess taken)
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                    THE VIDEOGRAPHER: The time is
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           4:05 p.m.
                   We are back on the record.
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      EXAMINATION BY
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      MS. McNAMARA:
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                   Hi, Dr. Kolodny. Welcome back.
           Q.
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           Α.
                   Hi there.
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           Q.
                   My name is Colleen McNamara. I
      represent Cardinal Health.
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                    We actually had the opportunity to
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      speak a few weeks ago, right?
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           Α.
                   Yes.
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           Q.
                   Right.
                    So in the interest of not retreading
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      the ground that Tim covered, I'm going to jump
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      around a little bit across different topics, so
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      let me know if anything is not clear as I'm moving
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      through this.
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                    I first want to turn back to your
      discussion about doctors consulting pharmacists.
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Q. So just so I'm clear, is it your opinion that it's common for doctors to consult with pharmacists about whether to prescribe an opioid medication versus a non-opioid medication?

MS. DICKINSON: Objection to form.

I don't know that I would say that Α. it's common. I would say that clinicians frequently consult pharmacists about what they're going to prescribe. Whether it's a recommendation for a class of drug or a specific product or a dose or how the prescription is written, I believe that that's very common.

I don't think it's common for a clinician to call a pharmacist and say "Should I prescribe Advil or Vicodin?" I don't think that happens commonly, but I think that clinicians frequently consult pharmacists.

> Q. Okay.

For purposes of this deposition and this case, I really want to focus on the consultations about opioid prescriptions specifically.

Would you say that doctors frequently consult pharmacists about opioid prescriptions?

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A. I would say that doctors frequently consult pharmacists about what they prescribe and I don't think that opioids would be -- I think that opioids would be part of what they might consult a pharmacist about.

I don't believe that because an opioid is a controlled drug that would make a clinician less likely to ask a pharmacist about it. I think that we consult pharmacists about what we prescribe and opioids are drugs that we prescribe.

- Q. Have you personally in the course of your research ever attempted to quantify the frequency at which doctors consult pharmacists about opioid prescriptions?
- A. No. I haven't studied that. I'm not familiar with published literature on that topic. I wouldn't be surprised if there is published literature on doctors consulting pharmacists in general. I think it's unlikely that anyone has ever specifically studied opioid consultations with pharmacists. I don't know.

But again, it is very common and I think your experts will acknowledge this -- your pharmacist experts will acknowledge -- that

pharmacists are members of a health care team and that when treating a patient with regard to what might be prescribed to the patient as part of their treatment, it's common to consult a pharmacist.

Q. So help me understand what "common" means.

So out of every ten prescriptions, say, how many times does a doctor call a pharmacist to ask about that prescription?

MS. DICKINSON: Objection to form.

A. I don't really think it's possible to come up with a number. I think it really depends. If it's a medicine that the doctor prescribes frequently, they know this drug, they know the dose, they prescribe it a lot, they're not calling a pharmacist. But if it's a medication that the doctor doesn't typically prescribe, if the patient comes in and says Doctor, I heard about this or that drug and the doctor has never prescribed it before, they might -- they might actually ask a pharmacist about the drug. They might want to know -- they might call the pharmacist and say "Hey, do you have this in stock?" They might -- if the pharmacist says yes, they may say "Hey,

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what's the starting dose on this? How is it typically prescribed?"

I think those types of conversations are common when it's a drug that a clinician doesn't frequently prescribe.

- Q. The conversation about whether a medication is in stock or what the available dosage is, you'd agree that those are different conversations than calling up a pharmacist and asking whether a particular medication is appropriate to treat a particular medical condition, right? Those are two different types of conversations?
- A. Different, but not that different. But different.
  - Q. Okay.

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And so you mentioned that if a medication is something that a doctor frequently prescribes, they wouldn't have to call a pharmacist.

Is it also true that if a medication is used to treat a common medical condition suffered by 50 million Americans, say, and the medication has been the subject of a lot of marketing and discussion among the medical

Page 255 community, then the doctor is unlikely to have to 1 2. call the pharmacist? MS. DICKINSON: Objection to form. 3 Lacks foundation. 4 Α. I'm sorry. Could you repeat the 5 question? 6 7 Ο. Well, I'm going to back to your testimony about -- I think you said a number of 8 9 times that doctors were hearing from every 10 direction that opioids are safe and effective to 11 treat chronic pain. 12 Was that your testimony, part of your 13 testimony? 14 Yes, that was my part of my Α. 15 testimony. 16 And do you agree that chronic Ο. 17 non-cancer pain is a condition that's suffered by 18 many millions of Americans? 19 MS. DICKINSON: Objection to form. 20 I think that chronic pain is very Α. 21 frequently experienced. I pulled my hamstring. 2.2 If it continues to bug me, I'll meet the criteria for chronic pain. It's been about two weeks. 23 24 It's part of being alive. We frequently experience pain and millions of Americans will 25

experience chronic pain. That doesn't mean that millions of patients are visiting doctors with a complaint of -- tens of millions are visiting doctors disabled because of chronic pain, seeking medicines for chronic pain or for treatment for chronic pain. Most of us grin and bear it. We'll buy something over the counter. That's very common.

Q. But in a situation where doctors are hearing from every direction from across the medical community that opioids are safe and effective, where they perhaps are being detailed by pharmaceutical companies, would you say it's less likely that a doctor would have to call and consult a pharmacist about an opioid medication than about some other type of medication that is less frequently prescribed?

MS. DICKINSON: Objection to form. Calls for speculation.

A. Not necessarily. If the physician is being detailed about a specific product and they're being detailed effectively, they're probably not going to call the pharmacist. But much of what I was referring to was the unbranded campaign to change the way the medical community

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thought about opioids as a class of drug and being led to believe that opioids as a class of drug that rarely lead to addiction, that they're appropriate for long-term use for common, chronic conditions would make that doctor more apt to prescribe an opioid, but not necessarily make that doctor less likely to consult a pharmacist.

- Q. So we talked about the two different types of conversations, right? Are you referring to not necessarily less likely to consult a pharmacist about something like a dosage strength or stock? That conversation might still happen, right?
  - MS. DICKINSON: Objection to form.
- A. Correct. Or -- yeah, that could happen.
- Q. But you are not able to identify for me any studies or any data that quantify the frequency at which doctors consult with pharmacists about opioid prescriptions, correct?
- A. I'm not aware of a study that's been done on that subject. I'm aware that doctors and other health care providers frequently consult pharmacists. Pharmacists are seen as the experts about medicines that we prescribe and I don't

believe that opioids are an exception to the medical community frequently asking pharmacists about drugs and what to prescribe.

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And I think that your pharmacist experts -- the defense experts -- would acknowledge that clinicians frequently ask pharmacists about medications that they prescribe.

- Q. Can you identify a single instance in Cabell County or Huntington, West Virginia where a doctor consulted a pharmacist about an opioid prescription?
- A. You're asking me do I have the name of a doctor or pharmacist in Cabell County where this happened?
- Q. Yes. Or any evidence that it actually happened in Cabell County or in Huntington, that a conversation with a pharmacist influenced a doctor's decision to prescribe an opioid?

MS. DICKINSON: Objection to form.
Go ahead.

A. I didn't see it happen, I didn't listen in on a phone conversation between a doctor and a pharmacist. I know that it happens frequently in the United States and the last time

I checked, Cabell County is in the United States.

This is a common way that health care is practiced in the United States.

Pharmacists are health care professionals. They are members of a clinical team and hospitals, they round with doctors on patients. So did I witness this firsthand happening in Cabell County? I didn't. Do I believe -- is it my opinion that this happened in Cabell County? That's my opinion.

Q. I know you described earlier your own experience consulting pharmacists about medications.

Did any of those consultations of yours relate to opioid medications used to treat pain?

A. I very rarely prescribe opioids for the treatment of pain. I prescribe opioids for treating an opioid addiction and I actually have had -- so I prescribe buprenorphine for the treatment of opioid addiction and I have had instances where a patient might need a form of buprenorphine that I don't typically prescribe that's in a dose I don't typically prescribe and I've had conversations with pharmacists about

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More often where I might consult a pharmacist is if I'm prescribing a drug that I don't routinely prescribe or treating a condition that I don't routinely treat.

Like I gave as an example, this is a real example of a patient with poison ivy. I understand that topical steroids are appropriate and would give that patient relief, but I don't routinely prescribe topical steroids. If I go online to try to figure out which type of topical steroid, there are just tons of them and a range of different potencies. I don't know which one a pharmacist is even going to stock. So I would call the pharmacist and I would say "I would like to prescribe a mid-potency or a high-potency topical steroid. What do you got?" That has happened. That's happened in my clinical practice.

Q. Understood. But again, I'm trying to focus on opioid prescriptions because that's the subject of this case and the subject of your opinion.

Do you have -- what is the basis for your opinion that doctors consult with pharmacists

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about opioid medications other than your -- about the treatment of -- strike that.

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So what is the basis for your opinion that doctors consult with pharmacists about prescribing opioids for the treatment of pain other than your own experience consulting pharmacists regarding other medications or opioids used to treat addiction?

MS. DICKINSON: Objection to form.

Asked and answered.

A. I haven't performed a survey study of pharmacists or physicians to find out how often you call pharmacists or ask pharmacists how often you get calls from doctors. I know that it's common from my own clinical experience, from conversations with colleagues, from presentations I've given to pharmacists about the opioid crisis where pharmacists will ask questions and communicate with me. I believe that it is common. It is my opinion that it is common for clinicians to consult pharmacists who are members of that health care team about the drugs that they prescribe and that opioids are not an exception.

Q. Okay.

Earlier, you testified that you

reviewed data from sales to pharmacies that suggested diversion.

Do you recall discussing that?

- A. I believe, yes.
- Q. So outside of your work for opioid plaintiff's lawyers, have you ever been asked to review data showing opioid sales to pharmacies?

  MS. DICKINSON: Objection to form.
  - A. Yes.

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- Q. In what context?
- A. Journalists who had data that they wanted to share with me data that they may have obtained from a FOYA request or from an investigation. So yes, I have seen data and OMINUS that was presented to me from sources other than attorneys.
  - Q. What journalists were those?
- A. I believe The Washington Post reached out to me about ARCOS data which they collected and I believe a journalist in Poughkeepsie, New York may have reached out to me about data on opioid prescribing. It's difficult to remember exactly.
- Q. Approximately what year did The Washington Post reach out to you about ARCOS data?

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- A. I believe 2019 when -- actually, there were other journalists. I remember The Washington Post, but I can't remember necessarily the other outlets that had reached out to me. But I think it was when ARCOS data became available from the litigation.
- Q. Was it is same time frame for the Poughkeepsie journalist?
- A. Poughkeepsie reaching out to me about data that was -- I can't remember exactly what the data was. I believe it involved -- it might have been -- I don't remember what the data set was, but that would have been a few years ago.
- Q. Was it data relating to sales by pharmaceutical distributors?
- A. No. I don't -- it may not have been distributor data.
- Q. What year were you first retained as an expert in opioid litigation?
- A. I think it was 2018. Maybe the end of 2017. I'm not exactly sure. I was helping out in litigation on a voluntary basis prior to my becoming an expert. The volunteer work I was doing probably goes back to maybe 2013, 2014.
  - Q. Did that volunteer work relate to

sales by distributors to dispensers of opioids?

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Q. Prior to 2018, had you ever been asked to determine whether a distributor's sales were indicative of diversion?

MS. DICKINSON: Objection to form.

- A. I don't think so, no.
- Q. In preparing your report in this case, what type of data did you review? Were you looking at aggregate data or were you looking at shipments to specific pharmacies or both?

MS. DICKINSON: Objection to form.

- A. I think it was both and it was -- I relied on expert reports that provided the data, the tables and comments on the data.
- Q. What standards did you apply to determine whether the data suggested diversion or not?

MS. DICKINSON: Objection to form.

A. I guess -- I don't know if there's a name for the standard except reasonable judgment that in a county in West Virginia that hundreds of millions of pills -- hundreds of millions of pills coming to the State of West Virginia would not -- would be inappropriate and so -- I don't know that

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there are -- I consulted any published baseline on what the dispensing or supplying should be, but I do know based on my work on the opioid crisis on opioid prescribing that products like the 30-milligram immediate release oxycodone -- again, that's just one example -- that there's a very limited appropriate use for that product and if there are large numbers of dosage units of that product coming into a pharmacy in Cabell County, that suggests that there's a problem because the genuine clinical need for a 30-milligram immediate release oxycodone is extremely limited.

Q. So in preparing your opinions in this case, were you looking at shipments by distributors of oxycodone 30 milligrams to specific pharmacies?

MS. DICKINSON: Objection to form.

A. If you're going to ask me questions about this, I'd like to be able to review the report and the tables that I looked at rather than try and answer these questions based on memory.

My report is more than 100 pages long. I relied upon multiple experts and their data sets.

If you're going to ask me specific questions about what's in my report, I'd like an

opportunity to look at the sections that you're asking me about.

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Q. Well, I'm running -- I don't have much time, so I'll just ask you off the top of your head, do you recall as part of your analysis looking at distributor shipments of oxycodone 30 milligrams to individual pharmacies in Cabell or Huntington?

MS. DICKINSON: Counsel, objection.

I mean, he said he needs to look at his report to accurately answer that question.

Are you asking him not to look at it?

I mean, he just answered he needs to look at it.

So Doctor, if you need to look at your report to accurately answer the question, go ahead. I understand we're running short on time, but you all allocated in your time in the way you desired to.

So Doctor, go ahead.

MS. McNAMARA: I'm sure you understand, Ms. Dickinson, that I've gotten a few pretty long speeches to very narrow questions, so that is why I'm particularly

Page 267 sensitive to time and when I rephrase my 1 2. question so that --MS. DICKINSON: You're asking him a 3 question that's been asked a couple times 4 today and he's given you his best answers, 5 6 whether you like the length of not. needs to look at his report to answer the question, he needs to look at his report. 8 9 So Doctor, go ahead and look at your 10 report. 11 Otherwise, if you want to withdraw 12 the question, go ahead and withdraw the 13 question. Doctor, have you had an opportunity 14 Ο. 15 to look at your report? 16 Α. Yes. 17 I'll just re-ask the question again Q. 18 so we're on the same page. 19 In preparing your report, did you 20 look at distributor's shipments of oxycodone 21 30 milligrams to individual pharmacies within 2.2 Cabell or Huntington? 23 MS. DICKINSON: Objection to form. I did. 24 Α. Earlier, when you were briefly 2.5 Q.

discussing the ARCOS data, I heard you say that distributors had access to better data than ARCOS through IQVIA and IMS Health.

Did I hear that correctly?

- A. Yes. More detailed data, prescriber data.
  - Q. Got it.

Okay.

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So what specific data could distributors purchased from IQVIA or IMS Health that was better than ARCOS?

A. The same data the manufacturers were purchasing. So that if a distributor had wanted, they could purchase IQVIA data and they would be able to see within a community who the outlier prescribers are and could have communicated to the pharmacies in the county that if you dispense prescriptions written by these aggressive prescribers, we will not continue to supply you with narcotics.

So very detailed information, the same information that manufacturers use to figure out which doctors they're going to detail, the same data that they use to figure out how to compensate sales reps for getting a prescriber to

prescribe more, that data could have been purchased by the defendants in this case.

- Q. Have you personally ever looked at that data that's available for purchase from IQVIA or IMS Health?
  - A. I have.

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- Q. When did you do that?
- A. In the course of work on litigation work, documents that were obtained from discovery or data that was requested, so I've seen the data that was available.
- Q. Have you reviewed the data that was available at different points in time or did you just review, like, a single snapshot of it?

  MS. DICKINSON: Objection to form.
- A. I believe I reviewed snapshots. I don't think I've seen IQVIA data trended, so it would have been snapshots. It could have been data that covered a period of time cumulative, but it wasn't trended out.
- Q. What was the earliest version of IQVIA or IMS data you that you recall looking at?
- A. I don't recall it. I don't recall the date of the data that I was looking at. I would have been looking at that data probably in

2019, maybe 2018 would have been the first time I would have been looking at IQVIA data firsthand.

I'm certainly familiar with studies that have been published using IQVIA data and have done research using PDMP data and understand some of the differences between what's available from PDMP data and what's available from IQVIA data and there are limitations to both.

- Q. What are the limitations to IQVIA data?
- A. IQVIA data doesn't include 100% of pharmacies, so IQVIA data is collected from pharmacies that I believe agree to sell their data to IQVIA and not every pharmacy will participate in that.

For the pharmacies that do
participate, it's very good data and where data
from IQVIA indicates a doctor may be a very
aggressive prescriber, motivation by not all
pharmacies participating would, if anything, just
maybe give -- minimize how aggressive that
particular prescriber is if you don't have all of
pharmacies, but with the pharmacies is that do
participate -- and I think it's upward of 80% of
pharmacies nationally that participate -- the pill

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mills can be spotted.

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- Q. Have you ever done any research of your own that involved spotting those pill mills using IQVIA data?
- A. I've done some work and I'm familiar with research that involves identifying doctors likely to be operating pill mills through PDMP data, not IQVIA data. IQVIA data is generally purchased by industry. It's very expensive for researchers to access it. I've reached out to IQVIA for their data and it was very expensive.
- Q. And distributors don't have access to PDMP data, correct?
- A. Not necessarily. PDMP data can be made available and identified. PDMP data in some states can be FOYA'd, so certainly if a distributor reached out to a state bureau of narcotic enforcement and said "Hey, can we collaborate on identifying pill mills?" I think that could have happened.
- Q. So can PDMP data be FOYA'd in West Virginia?
  - A. I don't know.
- Q. What is your basis for believing that if distributors had reached out to the State of

West Virginia that the State of West Virginia
would have handed over some form of its PDMP data?

MS. DICKINSON: Objection to form.

Lacks foundation.

- A. I don't know. I believe that a state bureau of narcotic enforcement and a prudent distributor of narcotics could be working together collaboratively so as to address a public health catastrophe happening in the State of West Virginia. So I don't know for certain, but I believe that they could have worked together to address this.
- Q. And that's just based on your belief, right? Not based on any evidence you've seen of West Virginia being willing to turn over PDMP data to distributors?
- A. I'm saying that I believe it was feasible that they could have worked together and that a distributor that really wanted to ensure that its products weren't getting diverted, that recognized that there are communities in West Virginia that have been devastated, that there's been a massive loss of life, I want to do everything I can to make sure that no pills are diverted, that there's a lot a distributor could

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have done from purchasing IQVIA data and telling every pharmacy in the state "Do not fill prescriptions written by these doctors" to reaching out and working collaboratively with law enforcement.

- Q. Do you know whether distributors ever asked DEA to provide the identified ARCOS data to help them in their anti-diversion efforts?
- A. I'm aware that distributors have made a case that the DEA should have shared more information with them and if the DEA had shared more information with them, they would have been able to prevent diversion, that they weren't able to get data on what other distributors were supplying and have attempted, I think, to shift blame for their failures to the DEA and that's one of the arguments -- I think a bogus argument -- that they make.
- Q. I think my question was a little different and maybe a little narrower.

Do you know whether distributors actually asked DEA to provide them with the identified ARCOS data?

A. I believe that distributors asked the DEA -- have complained that the DEA has not given

them ARCOS data that could be helpful to them in preventing diversion. I've heard them make that argument.

- Q. Do you know whether they asked?
- A. They're making the argument -- I think they made the argument that they wanted it from the DEA and the DEA didn't give it to them.
  - Q. Okay.

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And does that indicate to you that they asked and DEA said no?

MS. DICKINSON: Objection to form.
Calls for speculation.

A. No. It indicates to me that they're attempting to shift blame and, as I mentioned, I think it's a bogus argument. They didn't need -- if they had just worried about themselves, if they had not shipped orders that were suspicious, if they had stopped supplying outlier pharmacies, we could prevented diversion.

If they had called their distributor colleagues from the other companies and said "Hey, we just stopped shipping to this pharmacy because it's a dirty pharmacy, you shouldn't ship to them either," we could have put those pharmacies out of business.

Page 275 There's a medical board in West Ο. 1 Virginia, correct? 2. 3 Α. Yes. Are you aware of any evidence that 4 any of the distributors' customers were filling 5 prescriptions for doctors who are not licensed by 6 7 the State of West Virginia Medical Board? MS. DICKINSON: Objection to form. 8 9 Α. I'm sorry. Can you ask that again? 10 Q. Yeah, sure. 11 Are you aware of any evidence showing 12 that distributors' customers were filling 13 prescriptions written by doctors who were not licensed by the State of West Virginia? 14 15 I don't know if that happened. 16 could have -- I'm not aware of evidence that said 17 prescriptions were filled by doctors that didn't have a license or DEA registration. 18 19 I'd like to turn to the distributor Q. 20 marketing services for a few minutes. 21 Now, you understand that the 2.2 marketing services offered by distributors were 2.3 not just limited to opioids, right? 2.4 Α. Yes.

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Q.

Do you know what percentage of the

Page 276 marketing services provided by Cardinal Health 1 2. went towards opioid products as opposed to 3 non-opioid products? Α. 4 No. Ο. Do you know that for either McKesson 5 or ABDC? 6 7 Α. I don't know what percentage, but the percentage wouldn't affect my opinion that it's 8 9 inappropriate. 10 Approximately how many instances did 11 you see in your review of thousands of documents 12 of Cardinal Health marketing opioids? 13 MS. DICKINSON: Objection to form. 14 Α. You're asking me how many documents I saw out of the thousands? 15 16 Ο. Yes. How many instances did you see of 17 18 Cardinal Health marketing an opioid product? 19 MS. DICKINSON: Objection to form. 20 I can't really remember how many Α. 21 examples. I saw multiple examples, but how many, 2.2 I didn't count and even if I had counted, I don't know that I'd be able to remember. 23 Did you cite them in your report? 2.4 Q. Objection to form. 2.5 MS. DICKINSON:

Page 277 I did cite in my report, I believe, 1 2. examples of Cardinal Health promoting and 3 marketing opioids, yes. 4 Q. Okay. Among the number of boxes that you 5 received, did you receive one of them that had a 6 7 set of documents starting with CAH? I believe I did. Should I --8 Α. 9 Ο. Yes, please. 10 MS. DICKINSON: Just while he's 11 looking for that, from the videographer, how 12 much more time do we have? 13 THE VIDEOGRAPHER: We are at six hours and 13 minutes. 14 15 MS. DICKINSON: Okay. 16 MS. McNAMARA: So can you pull out 17 the document called CAH Exhibit 4? I marked this on Exhibit Share as Exhibit 22. 18 19 (Whereupon, Exhibit 22 was marked for 20 identification.) 21 MS. DICKINSON: Dr. Kolodny, don't 2.2 hurt yourself. That looks a little scary with those scissors. 2.3 24 THE WITNESS: Got it. 25 Q. All right. Great.

Page 278 Does the document in front of you 1 2. have the Bates label in the lower right-hand corner ending in 133350? 3 Α. Yes. 4 Okay. Great. 5 Q. So Exhibit 22 is an email with an 6 7 attached service flash from Cardinal Health. Is that correct? 8 9 Α. Yes. This service flash in Exhibit 22 is 10 Q. 11 an announcement of some new items, correct? 12 Α. Yes. 13 Q. And is this an example of a distributor marketing, advertising or promoting 14 15 opioids as you've been referring to it today? 16 MS. DICKINSON: Objection to form. 17 Α. Yes. 18 Q. Now, one of the products in this 19 announcement is a fentanyl sublingual tablet. 20 Do you see that? 21 I do. Α. And that's an opioid product, 2.2 Q. 23 correct? An exceptionally dangerous opioid 24 Α. product with an exceptionally limited indication. 25

Page 279 If you look at the document, next to 1 Ο. 2. the Abstral logo on the right; there's a heading 3 that says "Introducing Abstral from Galena." Do you see that? 4 Α. I do. 5 On the second line, about halfway 6 0. 7 over, it says that -- I'll read from the document -- "Abstral is an opioid agonist indicated for the 8 9 management of breakthrough pain in cancer patients 10 18 years of age and older who are already 11 receiving and who are tolerant to opioid therapy 12 for their underlying persistent cancer pain." 13 Did I read that correctly? 14 Α. You read that correctly. 15 Ο. Is that the very narrow indication 16 that you're referring to? 17 Α. It is. 18 And then below the ordering information, the document notes that Abstral 19 20 carries a black box warning. 21 Do you see that? 2.2 Α. T do. 2.3 In your view, is there anything false Ο. 24 or deceptive about the information provided here about Abstral? 2.5

- A. No, not on this particular promotion. On Cardinal Health promotions that I can give you as examples, there is deceptive information. This is -- what's listed here is not deceptive. It looks it's -- like they're printing the FDA indication.
- Q. And in your opinion, is it inappropriate for a distributor to send a notification like this that contains information about the indication of the product?
  - A. Yes.

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- Q. Why is that?
- A. Because I don't believe that opioid distributors should have been helping promote opioids, particularly when we couldn't handle the opioids that we already have in the United States. There's an oversupply of opioids. Your client is getting paid to send out this announcement for a reason. The reason is that the manufacturer -- Abstral believes it will make more money if pharmacists or pharmacies see this promotion and then stop the drug.

And what generally would happen, based on knowledge I learned through reviewing discovery, is that this isn't done in a vacuum.

That while this service flash is being sent by your client to pharmacies, sales reps are visiting doctors in these communities. The idea being that whether a doctor writes a prescription for Abstral that the pharmacy will have it because if the patient gets to the pharmacy and they don't have Abstral, the patient could wind up getting a different product, maybe not even an opioid, maybe not such a dangerous opioid.

And what we do know is that even though the indication here is the FDA indication, we know that when you look at the patients that wound up getting transmucosal fentanyl products, a very tiny sliver of those patients actually were patients with cancer who had breakthrough pain and were already opioid tolerant. The large majority of the patients who received this class of drug were patients who didn't even have cancer and that's why the products were being promoted.

So this is part of an overall campaign for the manufacturer and the distributor to make money off of an extremely dangerous opioid. It shouldn't have happened and there are points at which distributors, based on communications I've seen in the discovery, where

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it's clear that the distributors recognized they shouldn't be doing this anymore.

So yes, I think this is inappropriate. They should not be promoting opioids.

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Q. Have you attempted to quantify or otherwise evaluate the impact of distributors marketing to pharmacies purchases of opioid products?

MS. DICKINSON: Objection to form.

A. So I have very good evidence that these promotions were effective because manufacturers continued paying distributors to do this. If it didn't work, if it didn't make more money for the manufacturers and the distributors, it would have stopped.

So there's very good evidence that this did increase sales of opioids in the United States, in West Virginia, in Cabell County at a time when we couldn't handle the opioids that we already had.

Q. And as I understand it, as you just described it, the evidence is the manufacturers kept paying for this service?

MS. DICKINSON: Objection to form.

Lacks foundation.

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- A. Yes. The good evidence that these advertisements, that these promotions, worked is that they just kept happening and happening and happening.
- Q. Have you ever looked at the effect on purchases by the pharmacies or distributor sales to the pharmacies before and after these marketing materials were sent to the pharmacies to determine their impact?
- A. I am aware -- I think I cite in my report evidence that these were effective. I think there's communication cited in my report of a distributor -- I believe communicating to Purdue -- on how effective one of these promotions were.

I think it might have been a patient adherence program -- maybe for the Butrans patch -- where this type of marketing activity that a service sold by a distributor had an increase, had a positive impact on sales of that opioid. So there is some data out there, some of which I've cited in my report.

Q. You have not done that analysis yourself, correct?

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A. These were analyses, I believe, that were done by manufacturers and/or distributors to show that this works.

Q. And you've identified one to me right now.

Was that one that you described an analysis of Cabell County or Huntington, West Virginia?

MS. DICKINSON: Objection to form.

- A. I don't believe it was. I think it was national data is my understanding, but the last time I checked, Cabell County is in the United States.
- Q. Have you seen any evidence showing that any of these marketing materials were actually disseminated to any pharmacies in Cabell County or West Virginia? Have you seen the transmissions to the pharmacies?

MS. DICKINSON: Objection to form.

A. I have seen samples of what was transmitted. Many of these promotions are done over the internet, like glimmer buttons or pop ups if you use the right search term. And the last time I checked, Cabell County uses the same internet that the rest of the United States uses,

so I have every reason to believe these were promotions were disseminated in Cabell County.

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Q. You can't point to any evidence that any pharmacist in Cabell County or Huntington ever received or considered these materials in deciding whether to purchase, correct?

MS. DICKINSON: Objection to form. Lacks foundation.

- A. So some of these promotions ran on the order systems that the defendants operated and so if you were a pharmacy in Cabell County and a customer of one of the defendants, to order their products would have required you to use their ordering system where you would have been exposed to these promotions. So it doesn't make sense to me that there would have been some firewall around Cabell County that it wouldn't have seen these promotions.
- Q. But you haven't seen any evidence indicating that these promotions had any influence on purchasing decisions in Cabell County or Huntington, correct?

MS. DICKINSON: Objection to form.

Asked and answered.

A. I've seen evidence that it had an

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impact. I believe that was national data and the last time I checked, Cabell County is in the United States.

Q. And you have not conducted any survey or some other study of whether pharmacists consider these types of materials in deciding whether or not to purchase, correct?

MS. DICKINSON: Objection to form.

A. It wouldn't influence my opinion, even if there was a survey of pharmacists saying this doesn't affect them because many targets of marketing don't recognize that they're marketing. If you ask physicians whether or not a sales rep detailing them on a pharmaceutical product influences their prescribing, many physicians will say it has no influence on what I do, maybe it influences my colleagues, but not me.

But of course it does have an influence because that's why drug companies keep sending sales reps to doctors. They know that it works. The evidence that it works is that your client and the defendants in this case continued to sell these services to manufacturers.

Q. The distributor defendants in this case submitted ARCOS data to DEA throughout the

Page 287 relevant time period for this litigation, correct? 1 MS. DICKINSON: Objection to form. 2. I believe that's correct. 3 Α. So DEA always had data showing which 4 Ο. pharmacies each distributor was shipping to and 5 the quantity that was being shipped, correct? 6 7 MS. DICKINSON: Objection to form. Lacks foundation. 8 9 Α. I believe that the DEA had access to 10 shipment data. 11 MS. McNAMARA: Can we take a short 12 break? 13 MS. DICKINSON: Sure. 14 MS. McNAMARA: I'm done. I'm going 15 to pass. 16 MS. DICKINSON: Okay. All right. 17 MS. McNAMARA: Thank you, Dr. 18 Kolodny. MS. DICKINSON: Why don't we take 19 20 less than five minutes or just five minutes, 21 Dr. Kolodny, because I think we only have 20 2.2 minutes or so --23 MS. McNAMARA: Can we go off the record, please? 24 25 MS. DICKINSON: Sure.

Page 288 THE VIDEOGRAPHER: The time is 1 2. 4:57 p.m. and we are now off the record. 3 (Recess taken) THE VIDEOGRAPHER: The time is 5:04 4 We are now back on the record. 5 EXAMINATION BY 6 7 MS. VITALE: Good afternoon, Dr. Kolodny. This is 8 Q. 9 Christina Vitals and I represent defendants 10 AmerisourceBergen Drug Corporation or ABDC. 11 Hi there. Α. 12 So I wanted to follow up on something 13 you said with prior counsel regarding the fact sheet that you just covered. 14 15 You said "These things are not done 16 in a vacuum. When the doctor writes a 17 prescription for Abstral, the pharmacy may not 18 have it. If the pharmacy doesn't have it, the 19 patient could end up getting a different product." 20 Do you remember that testimony you 21 just gave? 2.2 Α. T do. 2.3 Could you go to ABDC document tab 32? It should be in one of smaller boxes. 24 Α. Which exhibit? 2.5

Q. ABDC 32. I'm going to mark this on the record as ABDC 23.

A. Okay.

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(Whereupon, Exhibit 23 was marked for identification.)

Q. Great. You will see this is West
Virginia Code Section 30-5-12b. It states
"Equivalent means drugs or drug products which are
the same amounts of identical active ingredients
and same dosage form and which will provide the
same therapeutic efficacy and toxicity if
administered to an individual and is approved by
the United States Food and Drug Administration."

That was Section 6.

Did I read that correctly?

A. Yes.

Q. Then if you go down to the paragraph below that's b, it says "A pharmacist who receives a prescription for a brand name drug or drug product shall substitute a less expensive equivalent generic name drug or drug product unless in the exercise of his or her professional judgment, the pharmacist believes that the less expensive drug is not suitable for the particular patient. Provided that a substitution may not be

Page 290 made by the pharmacist where the prescribing 1 2. practitioner indicates that in his or her 3 professional judgment, a specific brand name drug is medically necessary for a particular patient." 4 Did I read that correctly? 5 6 Α. Yes. 0. I'm sorry. Was that a yes? 8 Α. That was yes. 9 0. So in fact, the patient could not end 10 up getting a different product, but can only get 11 an equivalent product as prescribed by the West 12 Virginia code; isn't that accurate? 13 MS. DICKINSON: Objection to form. Lacks foundation. 14 15 Calls for a legal conclusion. 16 Go ahead and answer if you can, 17 Doctor. 18 Α. No, it's not accurate. 19 And why is it not accurate? Q. 20 You're referring to my prior Α. 21 testimony with regard to Abstral. I don't believe 2.2 that there is an equivalent product to Abstral. 2.3 Q. Right. 2.4 So then the patient could not get a different product without the prescriber being 2.5

Page 291 contacted and writing a different prescription, 1 correct? 3 MS. DICKINSON: Objection to form. No, not necessarily correct. 4 Α. So you're saying the pharmacist could 5 6 substitute his own judgment for a patient he's 7 never seen or medical records that he's never reviewed and give the patient a different product? 8 9 MS. DICKINSON: Objection to form. 10 Lacks foundation. 11 Compound. 12 No, that's not what I'm saying. Α. 13 Q. So what are you saying? MS. DICKINSON: Objection to form. 14 15 Α. I'm saying that if the pharmacy 16 didn't have Abstral, there's a good chance that 17 the patient would have walked out of that pharmacy 18 without receiving a prescription for a 19 transmucosal fentanyl product that potentially 20 would have saved that patient's life because these 21 are exceptionally dangerous -- that were 2.2 overwhelmingly prescribed to patients who should not have received them. 2.3 So a promotion that increases the 2.4 likelihood that the pharmacy will stock Abstral is 2.5

a promotion that also includes the likelihood that the patient will receive Abstral, which is the intent, which is why the manufacturer of Abstral is paying the distributor to promote the drug.

- Q. So you were not saying before that the pharmacist could substitute a different drug?

  MS. DICKINSON: Objection to form.
- A. No, I was saying that the patient might not get that drug.
  - Q. Thank you.

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All right. You can put that aside.

You state that in your report defendants, and ABDC in particular, used "various marketing tools to promote opioid analgesics and the revisionist message of liberalized prescribed that fostered sales and addiction."

Correct?

- A. Correct.
- Q. And one example for your claim that distributors sold services to increase the demand of opioids that you cite is ABDC "placing in pharmacy digital advertisements to appeal to customers."

Correct?

MS. DICKINSON: Counsel, what page

Page 293 are you at? 1 2. MS. VITALE: Page 15 of his report. MS. DICKINSON: Okay. Thanks. 3 Ο. Did I state that correctly? 4 Α. Let me --5 MS. DICKINSON: You've got to give 6 7 him a minute to get there. MS. VITALE: Sure. 8 9 Α. You're on page 15 of my report? 10 Q. Correct. 11 Where on the page? Α. 12 Second paragraph, it starts with as 0. 13 "As a result of these activities ..." Go to the last sentence. So I'll state it again. 14 15 You state in your report that 16 distributors sold services to increase the demand 17 of opioids and one of the examples you gave is 18 ABDC placing in-pharmacy digital advertisements to 19 appeal to customers. 20 Is that correct? 21 That is correct. I believe that's 2.2 correct. I'm just not following where you are on 23 the report. 24 MS. DICKINSON: I'm not seeing it 25 either. I'm sorry, Christina. Can you check

Page 294 your page number? I don't think you're 1 2. reading from the right page. 3 MS. VITALE: Sorry. Page 14. My apologies. 4 Okay. I see the paragraph that 5 begins "As a result ..." 6 7 Q. Okav. The customers that you're referring 8 9 to here are licensed pharmacies and pharmacists? 10 MS. DICKINSON: Objection to form. 11 Where? Referring to where? 12 In the sentence that says "Placing Ο. 13 in-pharmacy digital advertisements to appeal to customers," the customers you're referring to in 14 15 the last sentence in the second paragraph on page 16 14 of your report are licensed pharmacies and pharmacists, correct? 17 The last sentence? The sentence that 18 Α. 19 begins "Distributors did more than simply ship orders ..."? 20 21 Ο. Correct. 2.2 Are the customers that you're 23 referring to in the last sentences that you 24 literally end the paragraph with, are those licenses pharmacies and pharmacists? 25

- A. They include licensed pharmacies and pharmacists.
- Q. So you're saying that digital advertisements are going to other customers that are not pharmacies or licensed pharmacists with this sentence?
- A. I believe that customers of distributors were not limited to pharmacies, that there were other customers. In some cases, clinics purchased drugs directly from distributors and hospitals, so I would say that it includes pharmacies and pharmacists, but may include other customers.
  - O. Okay.

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And you cite the glimmer button.

You've cited that today in your testimony on

Bergen's Accusource computer program.

That would be an example in your mind of these placing in-pharmacy digital advertisements to appeal to customers, correct?

A. Yes, that's an example.

MS. VITALE: Can you go to ABDC tab three? I'm going to mark this as ABDC Exhibit 24.

THE WITNESS: Got it.

Page 296 (Whereupon, Exhibit 24 was marked for 1 identification.) 2. 3 Ο. This document states "During the month of January, we will have a glimmer button on 4 5 Bergen's Accusource system. This glimmer button will show up when a pharmacist calls for a 6 7 targeted competitor. Pushing the button will then reveal information on Oxycontin to the 8 9 pharmacist." Did I read that correctly? 10 11 Yes. Α. 12 Q. It goes on to say "During January, we 13 have targeted 25 competitors, including Vicodin" and then it lists the 24 other drugs. 14 15 Α. Yes. 16 Did I read that correctly? Q. 17 Α. Yes. 18 Q. Okay. 19 Is Vicodin an opioid? 20 It is. Α. 21 Is Percocet an opioid? Q. 2.2 Α. It is. 23 Is Duragesic an opioid? Ο. Yes. 24 Α. Is MS Contin an opioid? 25 Q.

Page 297 It is. Α. 1 2. Q. So you would agree with me then all 3 of these 25 listed drugs are brand name opioids, correct? 4 MS. DICKINSON: Objection to form. 5 6 Α. Yes. 7 Q. And all of these are FDA approved drugs, correct? 8 9 I'm not sure what Anexsia is. I've never heard of that one. I would agree that 10 11 almost -- certainly almost all, if not all of 12 these, are opioids. 13 Q. And all of these are FDA approved drugs, correct? 14 15 Α. I believe so, yes. 16 Ο. The document goes on to say "During 17 January, every pharmacist ordering the above 18 products on the Bergen system will be encouraged 19 to consider Oxycontin instead because of this 20 glimmer button." 21 Did I read that correctly? 2.2 Α. Yes. 23 So isn't the demand already there if Ο. the licensed pharmacist is calling in to order an 24 opioid? 25

- A. I'm sorry? What's your question?
- Q. Isn't the demand already there if the licensed pharmacist is calling in to order an opioid?

MS. DICKINSON: Objection to form.

A. Not exactly.

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- Q. Why is that?
- A. Because Oxycontin is a very different drug from Tylenol with codeine. Tylenol with codeine is acetaminophen with a low dosage of the opioid. Oxycontin, one Oxycontin pill could have 50 -- the equivalent of 50 Tylenol with codeine in it. Similarly for Ultram, another weak low dosage opioid.

This idea that Oxycontin, this extended release opioid that packs an enormous dose of opioid, could be -- should be prescribed instead of one of these competitor products, if that happened, it was very likely this promotion harmed people. It's much more likely to harm a patient if you prescribe them Oxycontin than if you prescribe them Tylenol with codeine.

- Q. Oxycontin is oxycodone, correct?
- A. Oxycontin is extended release oxycodone. It comes in enormous doses and it's

meant to be taken around the clock. A patient who takes Oxycontin can very quickly become dependent or addicted.

- Q. And Percocet is an oxycodone, correct?
- A. Correct. So the average Percocet would have five milligrams of oxycodone in it.

  Oxycontin comes in a dose with 80 milligrams of oxycodone. They're not equivalent products.
- Q. But they are all opioids, correct, Doctor?

MS. DICKINSON: Counsel, he's not finished with his answer. You guys are talking over each other.

Doctor, please finish your answer and counsel, can you give him a minute? You're talking over him a lot.

- A. Promoting Oxycontin where it's a low-dosage opioid product that might have been prescribed might have harmed patients. This is a good example of marketing by a distributor that had a harmful impact.
- Q. But you do agree with me that all of these drugs or at least most of these drugs are opioids, correct?

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A. To just say yes to that would be misleading. They are not -- these drugs are not all equivalent to Oxycontin. Oxycontin is an extended relief oxycodone product that comes in an extremely high dosage. Most of these or all almost of them are immediate relief opioid products that come in low dosages.

Q. You don't know if this was ever implemented, correct?

MS. DICKINSON: Objection to form.

- A. Based on the two pages that you handed -- that you're asking me to comment on, I can't say. I would hope that it wasn't, but I think it's very likely that it was. And I -- maybe elsewhere in my report I cite examples -- I do cite examples of promotions like this that were implemented where there's a statement of work and an invoice.
- Q. But you're guessing that this was implemented, correct? You don't have any knowledge?

MS. DICKINSON: Objection to form.

Misstates his testimony.

A. Based on the two pages you're asking me to give you an opinion about, it doesn't say

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here. I believe that in my report I cite examples -- and maybe this example -- of promotions like this that were -- that I do know were executed. I know they were executed because there's data on their effectiveness commented on internally.

- Q. And you don't know how many West
  Virginia pharmacists pushed on this glimmer button
  and then ordered Oxycontin, correct?
- A. I don't have data to tell me how often that happened in the State of West Virginia.
  - Q. You cut put that aside, Doctor.

You state also in your report that distributors sold services designed to increase opioid use and another way that they did this was by establishing programs on how pharmacists could advise and reassure patients about opioids.

- A. I'm sorry. Where are you reading from?
  - Q. Page 14 of your report.
- A. I'm sorry. Where on the page are you?
- Q. Right in the same sentence we were just at, establishing programs on how pharmacists could advise and reassure patients on opioids.

Page 302 That's one more example that you give 1 2. that distributors sold services designed to increase opioid use, correct? 3 I'm sorry. The example we just went 4 Α. over was an example of a promotion. I'm not sure 5 what -- I'm sorry. Your question is --6 7 I'm simply asking you what you stated Ο. 8 your report, sir. You stated that distributors sold 9 services designed to increase --10 11 I'm sorry. I'm having --Α. 12 -- and one of the -- that's one of Ο. 13 your overall themes, is it not? 14 MS. DICKINSON: Objection to form. 15 Α. Yes. I'm trying to see where exactly 16 you're reading from. 17 Q. Page 14 --18 I'm on page 14. Α. 19 Same sentence that we were just at Q. 20 before: Distributors did more than simply ship 21 orders, but rather culled services designed to 2.2 increase demand, including drafting template 23 letters, establishing programs on how pharmacists 24 could advise and reassure patients about opioids. 2.5 Correct?

Page 303 Α. Yes. 1 2. Q. Then you cite on page 15 ABDC's Plus 3 Care and Good Neighbor programs as examples of this claim, correct? 4 5 MS. DICKINSON: Objection to form. Lacks foundation. 6 7 Α. I believe so. I'm not seeing where it says that, but I -- that sounds right. 8 9 MS. VITALE: Can you please go to tab 10 ABDC eight? I'm going to mark as this 11 Exhibit ABDC 25. 12 (Whereupon, Exhibit 25 was marked for 13 identification.) 14 This document shows that Bergen's 15 Plus Care involved Bergen Brunswick mailing a 16 packet to information to 1,800 community 17 pharmacists. The educational pieces designated 18 should include both the Plus Care logo and Good 19 Neighbor pharmacy logo. 20 Did I read that correctly? 21 Α. Yes. 2.2 Doctor, do you see where I read that? 23 Did I read it correctly? 24 Α. Yes, you did. You do not know whether any West 2.5 Q.

Page 304 Virginia pharmacist received these pamphlets 1 2. sitting here today, do you? 3 MS. DICKINSON: Objection to form. I don't have the list of the 1,800 4 Α. pharmacies that were targeted in front of me. 5 answer is I don't know. 6 7 And sitting here today, you do not 0. have any evidence of West Virginia pharmacists who 8 9 read and then reassured patients about opioids, 10 correct? 11 MS. DICKINSON: Objection to form. 12 I do have evidence that West Virginia 13 pharmacies and pharmacists were exposed to these 14 messages. 15 Ο. So are you changing your testimony 16 that you just gave that you said you did not know 17 whether any West Virginia pharmacists received 18 these pamphlets? 19 I'm sorry. I thought you were asking Α. 20 in general. You're talking about --21 Ο. No, I'm asking --2.2 MS. DICKINSON: Counsel, counsel, 2.3 you've got to slow down. He's not even able 24 to get out his answer when you're asking the 25 next question. I know you don't have a lot

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of time, but that's not his fault, so let him answer the question.

Go ahead, Doctor. Try to finish your answer.

A. So I'm sorry. I thought you were asking me about in general.

On this specific promotion that you're asking me about, I believe there's more -- I may have cited other examples of this Plus Care promotion in my report. I think there's more to the email exchange than this single page, if I remember correctly. But based on this particular page, what I can tell is that 1,800 pharmacies in the United States were targeted and don't have the list of pharmacies, so I can't say how many of those 1,800 or if any of those 1,800 were in West Virginia, but I do have evidence that West Virginia pharmacies were exposed to these promotions.

- Q. When you say these promotions, you mean these types of promotions? You don't have evidence they were exposed to this particular promotion, correct?
- A. I may in my report, but you're right,
  I am speaking about these types of promotions.

Page 306 Okay. You can put that aside. 1 Ο. Thank 2. you. You're aware that ABDC distributes 3 insulin, flu vaccine, blood pressure medication 4 and other non-opioid prescription medication to 5 its pharmacy customers, correct? 6 7 MS. DICKINSON: Objection to form. 8 Α. Correct. 9 You have no idea what percentage of Ο. 10 the company's distribution relates to other 11 life-saving medication, correct? 12 MS. DICKINSON: Objection to form. 13 Lacks foundation. I'm sure I don't have a full 14 Α. 15 accounting of all of the different products that 16 AmerisourceBergen distributes. 17 Now, you also claim in your report 0. 18 that -- excuse me -- defendants promoted opioids 19 through core marketing techniques such as email 20 and fax blast, direct mail promotion, web 21 promotion, banner advertising, home page 2.2 advertising on defendant's home pages and even 23 telemarketing. 2.4 Could you go to page 40 of your report, footnote 138, so you have the reference? 2.5

Page 307 And you cite as an example of this 1 2. a --MS. DICKINSON: Counsel, I don't know 3 if he's there yet. I'm certainly not. Can 4 5 you give us a second? 6 MS. VITALE: Page 40, footnote 138. 7 MS. DICKINSON: Okay. I'm there. 8 Doctor, have you found that? 9 Α. Yes. I just want to see -- I can see 10 where it says footnote 138. I just want to read 11 the sentence that cites 138. 12 Okay. I'm with you. 13 Q. You cite a sell sheet for Mallinckrodt's generic fentanyl patch provided to 14 15 Amerisource customers in the footnote. 16 Do you see that? 17 Α. Yes, I do. 18 MS. VITALE: Can you go to tab ABDC 19 12, please? I'm going to mark this as ABDC 20 Exhibit 26. 21 (Whereupon, Exhibit 26 was marked for 2.2 identification.) 23 THE WITNESS: Got it. 24 Q. On page one of this sell sheet that 25 was provided to Amerisource customers, under

Indications and Usage, it reads "Because of the risk of addiction, abuse and misuse with opioids, even at recommended doses, and because of the greater risks of overdose and death with extended release opioid formulations, reserve fentanyl transdermal system for use in patients for whom alternative treatment options, for example, non-opioid analgesics or immediate-release opioids, are ineffective, not tolerated or would be otherwise inadequate to provide sufficient management of pain."

Did I read that correctly?

A. Yes.

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Q. Then it says "Warning: Addiction, abuse and misuse, life-threatening respiratory depression, accidental exposure, neonatal opioid withdrawal syndrome."

Did I read that correctly?

- A. You did.
- Q. Then it says "Addiction, Abuse and Misuse: Fentanyl transdermal system exposes patients and other users to the risk of opioid addiction, abuse and misuse, which can lead to overdose and death. Assess each patient's risk prior to prescribing fentanyl transdermal system

Page 309 and monitor all patients regularly." 1 2. Did I read that correctly? 3 Α. Yes, I believe you did. You can put that aside, Doctor. 0. 4 Do you know who Dr. Yingling is? 5 6 Α. Say that name again. 7 Dr. Kevin Yingling. 0. It sounds familiar. 8 Α. 9 0. Are you aware that Dr. Yingling, who 10 is the Chairman of the Board of Director at Cabell 11 Huntington Hospital testified in this litigation 12 that he prescribed opioids and even increased the 13 rate at which he prescribed opioid medications when he was in private practice? 14 15 Are you aware of that? 16 I'm not sure. I mean, I reviewed 17 thousands of pages of documents. Off the top of 18 my head, I can't recall whether or not I reviewed 19 his testimony. 20 So are you saying that Dr. Yingling Ο. 21 was duped or easily manipulated into prescribing 2.2 opioids to his patients? 2.3 MS. DICKINSON: Objection to form. Lacks foundation. 2.4 Can you read me his testimony again? 2.5 Α.

Q. He testified that he prescribed opioids and increased the rate at which he prescribed opioid medications when he was in private practice.

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MS. DICKINSON: Objection to form.

Lacks foundation.

- A. I can't answer your question based on I don't know who he treated. Was he working in palliative care? If he was prescribing opioids to patients who shouldn't have been getting opioids and assuming he intended to be helping these patients, then I would say he was influenced by this campaign that resulted in the dramatic change in opioid prescribing. I don't know him, but I know many smart and well-meaning clinicians who were influenced by this campaign.
  - Q. Do you know Dr. Kilkenny?
  - A. The name is familiar.
- Q. Are you aware that Dr. Kilkenny, a Physician Director of Cabell Huntington Hospital, testified he prescribed opioids to his patients in private practice?

MS. DICKINSON: Objection to form.

24 Lacks foundation.

A. I don't recall his specific

Page 311 testimony. 1 Q. He also testified that he prescribed 3 opioids because he felt the benefit of opioid medication outweighed the risk for that particular 4 patient. 5 Are you aware of that? 6 7 MS. DICKINSON: Objection to form. Lacks foundation. 8 9 Counsel, he just testified he hasn't 10 reviewed his testimony. 11 It calls for speculation. 12 MS. VITALE: You can answer. 13 Α. I haven't reviewed his testimony. 14 What I can tell you is that I would expect that 15 any clinician who is well intended is only going 16 to prescribe a medicine or recommend a surgical 17 intervention or any treatment if they believe that 18 the benefits outweigh the risks to the patient that they're treating. 19 20 Unfortunately, when it comes to 21 opioids, in many cases, clinicians don't weigh the 2.2 risk versus benefit appropriately because they are misinformed. 2.3 2.4 Q. So do you think Dr. Kilkenny was writing these prescriptions because a pharmacist

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Page 312 who had a pamphlet told him to do so? 1 2. MS. DICKINSON: Objection to form. Lacks foundation. 3 Calls for speculation. 4 Counsel, I don't know where you're 5 6 going with this, but you haven't laid a foundation that he's even seen the testimony, so you can maybe ask this one more question 8 9 about Kilkenny, but I don't know it's going to get you and you've got three minutes. 10 11 So go ahead, Doctor, if you can even 12 begin to answer that question. 13 Α. You were asking me about why a doctor prescribed in a particular way. It's a doctor who 14 15 I don't believe I ever met. I don't recall reviewing this doctor's testimony, I can't 16 17 really --18 THE COURT REPORTER: Doctor, I'm 19 sorry, but I can't hear you. 20 I'm sorry. I can't -- I'm being 21 asked -- you're asking me why a particular doctor 2.2 prescribed a particular medication. I don't know this doctor, I don't know who -- this doctor 23 24 patients, I don't recall reviewing this doctor's testimony. I have absolutely no idea why this 2.5

Page 313 doctor did or didn't do anything with any 1 2. particular patient or whether or not it was 3 appropriate or inappropriate. I don't know anything about the doctor's patients. 4 MS. VITALE: Can you go to ABDC tab 5 I'm going to mark this as ABDC 6 25, please? Exhibit 27. (Whereupon, Exhibit 27 was marked for 8 identification.) 9 10 Doctor, my question is are you aware 11 in 2005 the West Virginia Board of Medicine 12 encouraged doctors to use prescription opioids to 13 treat chronic non-cancer pain? 14 Α. Yes. 15 Ο. If you go to the document -- It says 16 under the preamble, Section 1, last sentence, "For 17 the purposes of this policy, the inappropriate 18 treatment of pain includes nontreatment, under treatment, over treatment and the continued use of 19 20 ineffective treatments." 21 Did I read that correctly? 2.2 Α. I believe you did. On the second page, it says "The 2.3 24 Board recognizes that controlled substances, including opioid analgesics, may be essential in 2.5

Page 314 the treatment of acute pain due to trauma or 1 2. surgery and chronic pain whether due to cancer or non-cancer origins." 3 Did I read that correctly? 4 Α. You read it correctly. 5 6 0. The last sentence in that same 7 paragraph says "Physicians should recognize that tolerance and physical dependence are normal 8 9 consequences of sustained use of opioid analgesics 10 and are not the same as addiction." 11 Did I read that correctly? 12 I believe you are reading this 13 document correctly. Shouldn't the Board of Medicine be 14 Ο. 15 held responsible for this pronouncement, since 16 this is a direct communication for physicians? 17 MS. DICKINSON: Objection to form. 18 Lacks foundation. 19 Counsel, I believe we just hit seven 20 hours, so if you need to ask one more 21 question or something that's fine, but 2.2 Doctor, go ahead and then we could wrap it 2.3 up. That's a hard question to answer. 24 Α. Ι would say I don't really hold the Board 2.5

responsible for being deceived. I believe the Board was deceived. There are other statements you didn't include.

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For example, in this document is the term "pseudoaddiction" and it lists as the definition for pseudoaddiction the iatrogenic syndrome relating from the misinterpretation of relief seeking behaviors as though they are drug-seeking behaviors that are commonly seen with addiction. The relief seeking behaviors resolve upon institution of effective analgesic therapy."

Where you see the word

"pseudoaddiction," it's like a fingerprint for the opioids industries influence campaign, which was extensive and influenced state medical boards, largely through their trade association, the federation of state medical boards.

Pseudoaddiction is a made up concept.

It was a term coined by David Haddox, Purdue

Pharma's medical director. It's a term that tells

prescribers to do exactly the opposite of what

they should do if they think a patient is

addicted.

What this is really saying is if your patient looks like they might be addicted, give

them a higher dose. They look addicted because you are under prescribing pain. This is a really dangerous concept and it's a shame that the West Virginia Medical Board helped disseminate that concept, but I don't really blame them.

I think, like many in the medical community, they believe that they were doing the right thing, but they were influenced by an industry funded campaign that the included the distributors, your client.

Q. So just final question.

You believe the West Virginia Board of Medicine was duped?

A. I believe that state medical boards across the country were influenced by a campaign that encouraged aggressive and inappropriate prescribing. State medical boards across the country were hearing that they were part of a chilling effect in America. They were hearing that patients were suffering needlessly because doctors are too fearful of prescribing opioids because of overblown fear of addiction and that we could be much more compassionate if we prescribe opioids more liberally. Eight medical boards fell for it across the company. The opioid crisis

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Page 317 happened for a reason and this is one of the 1 reasons it happened. Yes. Eight medical boards 2 for influenced by the campaign that promoted 3 inappropriate prescribing. 4 5 MS. VITALE: Thank you, Doctor. I appreciate your time. 6 7 No more questions. MS. DICKINSON: I think we're out of 8 9 time, if the videographer and court reporter 10 want to close the record. THE VIDEOGRAPHER: The time is 11 12 5:40 p.m. and we are off the record. 13 14 15 16 17 18 19 20 21 2.2 23 24 25

Page 318 CERTIFICATION 1 2. I, SARA K. KILLIAN, RPR, CCR, do hereby certify that ANDREW KOLODNY, M.D., 3 the witness whose examination under oath 4 is hereinbefore set forth, was duly sworn, 5 6 and that such deposition is a true record of the testimony given by such witness. I FURTHER CERTIFY that I am not 8 9 related to any of the parties to this action by blood or marriage, and that 10 11 I am in no way interested in the 12 outcome of this matter. 13 IN WITNESS WHEREOF, I have hereunto 14 set my hand this 4th day of September, 2020. 15 16 17 SARA K. KILLIAN, RPR, CCR 18 19 Notary Public of the State of New York 20 21 2.2 23 24 25

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                               Veritext Legal Solutions
                                  1100 Superior Ave
                                     Suite 1820
                                Cleveland, Ohio 44114
                                 Phone: 216-523-1313
3
      September 10, 2020
      Andrew Kolodny
5
      andrewjkolodny@gmail.com
6
      Case Name: City Of Huntington v. Amerisourcebergen Drug Corporation,
7
      Et Al.
      Veritext Reference Number: 4241088 Deposition Date: 9/4/2020
8
9
      Dear Sir/Madam:
      Enclosed you will find a transcript of your deposition.
10
      As the reading and signing have not been expressly
11
      waived, please review the transcript and note any
12
      changes or corrections on the errata sheet
13
      included, indicating the page, line number, change and
14
      reason for the change. Sign at the bottom of the sheet
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      in the presence of a notary and forward the errata sheet
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      back to us at the address shown above or email to
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      If the errata is not returned within thirty days of your receipt of
19
      this letter, the reading and signing will be deemed waived.
20
      Sincerely,
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      Production Department
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      NO NOTARY REQUIRED IN CA
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	Page 320					
1	DEPOSITION REVIEW CERTIFICATION OF WITNESS					
2	CERTIFICATION OF WITHER					
_	ASSIGNMENT REFERENCE NO: 4241088					
3	City Of Huntington v. Amerisourcebergen Drug Corp, Et Al. DATE OF DEPOSITION: 9/4/2020					
4	WITNESS' NAME: Andrew Kolodny					
5	In accordance with the Rules of Civil					
	Procedure, I have read the entire transcript of					
6	my testimony or it has been read to me.					
7	7 I have made no changes to the testimony					
	as transcribed by the court reporter.					
8						
9	Date Andrew Kolodny					
10	Sworn to and subscribed before me, a					
	Notary Public in and for the State and County,					
11	the referenced witness did personally appear					
	and acknowledge that:					
12						
	They have read the transcript;					
13	They signed the foregoing Sworn					
14	Statement; and Their execution of this Statement is of					
	their free act and deed.					
15						
1.0	I have affixed my name and official seal					
16	this day of					
17	this, 20					
- /						
18	Notary Public					
19						
	Commission Expiration Date					
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Page 321 1 DEPOSITION REVIEW CERTIFICATION OF WITNESS 2 ASSIGNMENT REFERENCE NO: 4241088 3 City Of Huntington v. Amerisourcebergen Drug Corp, Et Al. DATE OF DEPOSITION: 9/4/2020 4 WITNESS' NAME: Andrew Kolodny In accordance with the Rules of Civil 5 Procedure, I have read the entire transcript of my testimony or it has been read to me. 6 7 I have listed my changes on the attached Errata Sheet, listing page and line numbers as well as the reason(s) for the change(s). 8 I request that these changes be entered 9 as part of the record of my testimony. 10 I have executed the Errata Sheet, as well as this Certificate, and request and authorize 11 that both be appended to the transcript of my 12 testimony and be incorporated therein. 13 Date Andrew Kolodny 14 Sworn to and subscribed before me, a Notary Public in and for the State and County, 15 the referenced witness did personally appear and acknowledge that: 16 They have read the transcript; 17 They have listed all of their corrections in the appended Errata Sheet; 18 They signed the foregoing Sworn Statement; and 19 Their execution of this Statement is of their free act and deed. 2.0 21 I have affixed my name and official seal this \_\_\_\_\_, day of\_\_\_\_\_, 20\_\_\_\_. 22 23 Notary Public 24 25 Commission Expiration Date

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# Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES

ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1,

2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

## VERITEXT LEGAL SOLUTIONS COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

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